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Prep & Review Time:

ACCESS DB # 165 461 PLEASE PRINT CLEARLY

1 DF CED 12 2005	entific and Technical Inform	ation Center	•
SEP 13 2005 SEP 13 2005	EARCH REQUEST	FORM	
Requester's Full Name: SIJE	ZARA Examin	er#: 77512 Date:	9-12-05
Art Unit: 1626 Phone No	umber: 2- 0 765 Se	erial Number: 09/8	396,692
Location (Bldg/Room#): 2029 (M:	ailbox #): <u> </u>	ormat Preferred (circle):	APER) DISK.
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To ensure an efficient and quality search, ple			•
Title of Invention:	Jec HIV	SpeciFic	OC, 90s.
Inventors (please provide full names):	S. AGrau	4C	
Earliest Priority Date:	19/01	,	
Search Topic: Please provide a detailed statement of the search	ch tonic, and describe as specifically as	possible the subject matter to be	searched. Include the
elected species or structures, keywords, synony. Define any terms that may have a special mean	ms, acronyms, and registry numbers, a	nd combine with the concept or u	tility of the invention.
For Sequence Searches Only Please include appropriate serial number.	e all pertinent information (parent, chil	d, divisional, or issued patent nu	mbers) along with the
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STAFF USE ONLY	Type of Search	Vendors and cost where ap	plicable
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Searcher Phone #:	AA Sequence (#)	Questel/Orbit	Lexis/Nexis
Searcher Location:	Structure (#)	Westlaw	WWW/Internet
Date Searcher Picked Up: 9 1365	Bibliographic	In-house sequence syste	ems
Completed: 9/15/04	Litigation	ommercial Oligome	erScore/Length Encode/Transl

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seq length: 22
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AZ976439 2M025JB24

AZ816374 2M0085005

AL483585 T. brucei

BQ588621 B015562-0

AZ579532 1M0367H10

AZ828544 2M0105004

A1439277 ti54A02.x

A1688330 wc94C08.x

BH000100 2M0287318

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BG927393 HNC1-1-F7

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AZ432757 1M0218L14

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CR753356 DKFZp469D

AZ371089 1M012ZD06

AZ652627 B012340w-

BQ587767 E012340w-

AZ619492 2M00691108

AZ819492 2M0059M02

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44.5	44.5	44.5	44.5	44.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	46.4	46.4	46.4	46.4	46.4
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AZ489586	AZ440413	BQ594437	BG668047	BQ593528	AL480592	AZ640656	AZ307952	BG925518	AJ587257	AZ830720	AZ798977	AZ309714	AZ388212	CL657608	AZ447414	AI630912	CL695388	AZ387187	CL687844	AZ610584
1M0322C12	1M0231A01	E012442-0	DRABUA12	8015525-0	T. brucei	1M0502K14	1M0010L24		Arabidops	2M0110D12	2M0056P01	1M0016M18	1M0148A10		1M0244L06	tz31g03.x	PRI016b B	1M0146L22		1M0435P20

ALIGNMENTS

PEATURES BOUICE	TITLE JOURNAL COMMENT	ACCESSION ACCESSION VERSION VERSION KEYWORDS SOURCE ORGANISM REFERENCE AUTHORS
TEL: 801 : Fax: 801 : Email: ddn Insert Ler Plate: 000 Seq primes Class: pla High quali		AZ821337 AZ821337 AZ821337 AZ80094L04F Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGC2M0094L04 F, genomic survey sequence. AZ821337 AZ821337 AZ821337 AZ821337.1 GI:12991245 GSS. Mus musculus (house mouse) Mus musculus Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Bukaryota; Metazoa; Chordata; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 22) Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmould,M., Meenen,B., Pedersen,T.,

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SOURCE
ORGANISM
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                                                                                                                                                                                                                                                                                          Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0
Plate: 0251 row: B column: 24
Seq primer: CACAGGAAACAGCTATGACC
Class: plasmid ends
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Unpublished (2000)
Contact: Robert B. Weiss
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
1. (bases 1 to 21)
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                                                                                                                                                                                                                                                                                                                                                                                         Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      University of Utah Genome Center 
University of Utah
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Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                  USA
                              /lab host="E. coli strain XL10-Gold, T1-resistant, F-"/clone_lib="Mouse 10kb plasmid UUGC2M library" /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jack.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Biomedical
                    Laboratory Mouse DNA Resource
                                                                                                                                                                        organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
(http://www.jax.org/resources/documents/dnares/). The DNA
                                                                                                                                   /db_xref="taxon:10090"
/clone="UUGC2M0251B24"
                                                                                                                   sex="Female"
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Pred. No. 6.9e+05;
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was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwh22 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel elettrophoresis. Vector DNA was prepared from a derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector NNA and transformed into

adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

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RESULT 3
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Insert Length: 10000 Std Error: 0.00
Plate: 0085 row: O column: 05
Seq primer: CGTTGTAAAACGACGGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                   University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Res
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Unpublished (2000)
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/lab_host="E. Coli strain XL10-Gold, T1-resistant, F./clone lib="Mouse 10kb plasmid UUGCIM 11brary" /note="Vector: PWD42nv; Purified genomic DNA from M.musculus C57BL/6J (male) was obtained from the Jack Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                           location/Qualifiers
                                                                                                                      'db_xref="taxon:10090"
'clone="UUGC2M0085005"
                                                                                                                                                         mol_type="genomic DNA"
strain="C57BL/6J"
                                                                                                    sex="Male"
                                                                                                                                                                                                  organism="Mus musculus"
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                    from the Jackson
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(http://www.jax.org/resources/documents/dnares/). The DNA

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Query Match
Best Local Similarity
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                       13;
                                                                                                                                                                                                                                                                                                                                                                              to give a tight size distribution (
4 kb). The v + i method used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. Genome Sequencing: A Practical Approach, eds. M. Vaudin and B. Barrell, Oxford University Press, 1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 ISA, E-mail: barrell@sanger.ac.uk and
                                                                                                                                                                                                                                                                                                     Email: nelsayed@tigr.org
Details of T. brucei sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/Projects/T_brucei/.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nhl@Banger.ac.uk
Constructed at the Institute for Genomic Research (TIGR),
Rockville, MD. Genomic DNA isolated from a cloned population of
Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hall,N., Bowman,S., Lennard,N.J., Doggett,J., Atkin,R., Chillingworth,C., Ormond,D., Harris,B., El-Sayed,N., Hou,L., Melville,S.E., Rajandream,M.A. and Barrell,B.G. Direct Submission
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AL483585.1 GI:11849086
GSS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent B. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
                                                                                                                                                                                       /organism="Trypanosoma brucei"
/mol_type="genomic DNA"
/strain="TREU927"
                                                                                                                                                                     db_xref="taxon:5691"
                                                                                                                                                                                                                                                                                         ocation/Qualifiers
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Pred. No. 1e+06;
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REFERENCE AUTHORS

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ORGANISM

KEYWORDS VERSION ACCESSION DEFINITION

TA245E10P/c RESULT 4

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AZ579532 20 bp DNA linear GSS 13-DEC-20 1M0367H10F Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGC1M0367H10 F, genomic survey sequence.
                                                                                                                                                                                                      4 CACCCATCTCTCTCT 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Email: weisshaa@mpiz-koeln.mpg.de
Insert Length: 16 Std Error: 0.00
Plate: 15 row: N column: 03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Weisshaar B
ADIS DNA core facility at MPIZ
Max-Planck-Institute for Plant Breeding Research
Carl-von-Linne Weg 10, 50829 Koeln, Germany
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Caryophyllales; Amaranthaceae; Beta.
1 (bases 1 to 16)
Herwig,R., Schulz,B., Weisshaar,B., Hennig,S., Steinfath,M.,
Drungowski,M., Stahl,D., Wruck,W., Menze,A., O'Brien,J., Lehrach,H.
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E012562-024-015-N03-SP6 MPIZ-ADIS-024-storage root Beta vulgaris
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Beta vulgaris
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                                                                                                                                                                     CAACTTTCTCTCTCCCT 16
                                                                                                                                                                                                                                                               Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /clone lib="MPIZ-ADIS-024-storage root"
/note="Vector: pCMVSPORT6; Site 1: SalI; Site 2: NotI;
cDNA library from sugar beet, library provided by KWS
Kleinwanzlebener Saatzucht AG Einbeck, Germany, contact
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               b.schulz@kws.de; cloning sites SalI-NotI, primer sites and
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/mol_type="mRNA"
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AZ828544 20 bp DNA linear GSS 20-FEB-20
2M0105004R Mouse 10kb plasmid UUGCIM library Mus musculus genomic
clone UUGC2M0105004 R, genomic survey sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Seq primer: CGTTGTAAAACGACGGCCAGT Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Erro
Plate: 0367 row: H column: 10
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Fax: 801 585 7177
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unpublished (2000)
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                                                                                                                                                                                                                                                                                                                                                                                                          Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWN42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /lab_host="B. Coli strain XL10-Gold, T1-resistant, F-"/Clone_lib="Mouse_10kb_plasmid_UUGCIM_Ilbrary"/note="Vector: pW042nv, Purified_genomic_DNA_from_M.musculus_C57BL/6J_(male) was obtained_from_the_Jackson_musculus_C57BL/6J_(male) was obtained_from_the_Jackson_musculus_C57BL/6J_(male)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mol_type="genomic DNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sex="Male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   clone="UUGC1M0367H10"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 db_xref="taxon:10090"
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Pred. No.
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2.2e+06;
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                                                       GSS 20-FEB-2001
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                                                                             RESULT 8
AI439277
                               DEFINITION
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SOURCE
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                                                                                                                                          Query Match
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                                                                                                                      Local Similarity
19
                                                                                          14;
                                             1 TCGCACCCATCTCTCTCT 19
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Insert Length: 10000 Std Error: (
Plate: 0105 row: O column: 04
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 20.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia; 1 (bases 1 to 20)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mus musculus
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AZ828544.1 GI:12998452
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mus musculus (house mouse)
                                                                                               Conservative
                                                                                                                                                                                                         Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
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/Clome_lib="Mouse 10kb plasmid UUGCIM library"
/note="Vector: PWB27ny; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
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clone="UUGC2M0105004"
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strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     organism="Mus musculus"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sex="Male"
                                                                                                                 50.0%;
73.7%;
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                                                                                                                      Score 11; DB 8;
Pred. No. 2.2e+06;
                                                                                               Mismatches
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AI439277 22 bp mRNA linear EST 09-M ti54a02.x1 NCI CGAP Lym12 Homo sapiens cDNA clone IMAGE:2134 similar to TR:Q17089 Q17089 COLLAGEN ;contains element MER22

p mRNA linear EST 09-MAR-1999 sapiens cDNA clone IMAGE:2134250 3'

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REFERENCE
AUTHORS
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VERSION
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AI688330/c
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Best Local Similarity
                                                                                                                        JOURNAL
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                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 22)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                           AI688330 22 bp mRNA linear EST 17-DEC
wc94c08.x1 NCI CGAP Co3 Homo sapiens cDNA clone IMAGE:2326286
similar to TR:Q64371 Q64371 PR-VBETA1. ;contains element MSR1
                                                     Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Elias Campo, M.D., Michael R.
                                                                                                                                                                                                                                                           Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.B. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
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Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 22)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
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AI439277
AI439277.1 GI:4303196
                                                                                               Contact: Robert Strausberg, Ph.D.
                                                                                                                    Tumor Gene Index
Unpublished (1997)
                                                                                                                                                                                                                                                                                                                       AI688330.1 GI:4899624
                                                                                                                                                                                                                                                                                                                                                            repetitive element ;, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Trace considered overall poor quality
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tumor Gene Index
Unpublished (1997)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: cgapbs-r@mail.nih.gov
cDNA Library Preparation: M. Bento Soares, Ph.D. cDNA Library Arraying: Greg Lennon, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CGCCCCCACCCCCCCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CGCACCCATCTCTCTCTT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 quality sequence stop: 1.
Location/Qualifiers
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                                           Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /clone_lib="NCI_CGAP_Lym12"
/note="Organ: lymph node; Vector: pCMV-SPORT6; Site_1:
Sall; Site_2: NotI; Cloned unidirectionally. Primer:
Oligo dT. Average insert size 1.25 kb. Life Technologies catalog #: 11547-015"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tissue_type="lymphoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    clone="IMAGE: 2134250"
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Pred. No.
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2.3e+06;
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                                                              Emmert-Buck
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BH000100/c
                      FEATURES
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DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality Insert Length: 670 Std Error: 0.00 Seq primer: -40UP from Gibco High quality sequence stop: 1.

Location/Qualifiers 1.

Location/Qualifiers 1.

/organism="Homo sapiens"
/mol_type="mkNA"
/db xref="taxon:9606"
/sex="pooled"
/tissue_type="colon"
/clone lib="NCI CGAP CO3"
/note="Vector: pT773D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site 2: Eco RI; lst strand cDNA was prepared from 12 pooled bulk tumor samples and primed with a Not I - 0.190(dT) primer. Double-stranded cDNA was prepared from 12 pooled bulk tumor samples and primed with a Not I - 0.190(dT) primer. Double-stranded cDNA was iligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization. "
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ACCESSION VERSION KEYWORDS REFERENCE DEFINITION JOURNAL ORGANISM AUTHORS source Email: ddunn@genetics.utah.edu Insert Length: 10000 Std Error: (Plate: 0.89 row: A column: 18 Seq primer: CACACAGGAAACAGCTATGACC Contact: Robert B. University of Utah University of Utah Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R. BH000100 22 bp DNA linear GSS 27 2M0287A18R Mouse 10kb plasmid UUGC2M library Mus musculus clone UUGC2M0287A18 R, genomic survey sequence.

BH000100 Tel: 801 585 5606 Fax: 801 585 7177 Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia; 84112, Mouse whole genome scaffolding with paired end reads from 10kb Mus musculus BH000100.1 Rm. 308, Unpublished (2000) plasmid inserts Mus musculus (house mouse) ass: plasmid ends (bases 1 to 22) quality sequence stop: 22 USA Biomedical Location/Qualifiers GI:13871326 Genome Weiss Polymers Research Bldg., Center Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus 0 8 20 S. 2030 E., 27-APR-2001 genomic SLC, S

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AUTHORS
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source
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                                                                                                                                                                                                                                                                                                   Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AZ807034 19 bp DNA linear GSS 20-FEB-20
2M0069B05R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
Clone UUGC2M0069B05 R, genomic survey sequence.
                                                                                                                           Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0069 row: B column: 05
                                                                                                                                                                                                                                                                                                                                                                                                            Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
1 (bases 1 to 19)
                                                                          Seq primer: CACACAGGAAACAGCTATGACC Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                      Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Dunn, D., Aoyagi, A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus (house mouse)
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:: 801 585 7177
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                        quality sequence stop: 19.
Location/Qualifiers
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                                                                                                                                                                                                                                                           USA
                                                                                                                                                                                                                                                                              Biomedical Polymers Research Bldg., 20 S. 2030 E.,
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/clone_lib="Mouse_10kb_plasmid_UUGC2M_library"
/note="Vector: PMP12rv; Purified genomic_DNA from M.
musculus C57BL/6J (female) was obtained from the Jackson
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(mol_type="qenomic ממאי"
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/strain="C57BL/6J"
/db_xref="taxon:10090"
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100.0%; Pred. No. 2.3e+06;
tive 0; Mismatches 0;
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BG927393
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                                                                                                                                                                                                                                                                                                                                                              Identification and initial characterization of 5000 expressed sequenced tags (ESTs) each from adult human normal and osteoarthritic cartilage cDNA libraries
Osteoarthr. Cartil. 9 (7), 641-653 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 20)

Kumar, S., Connor, J.R., Dodds, R.A., Halsey, W., Van Horn, M., Mao, J., Sathe, G., Mui, P., Agarwal, P., Badger, A.M., Lee, J.C., Gowen, M. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 CACCCATCTCTCTC 17
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21482651
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                                                                                                                                                                      Fax: 610-270-5598
                                                                                                                                                                                               Tel: 610-270-7245
                                                                                                                                                                                                                 GlaxoSmithKline
709 Swedeland Road,
                                                                                                                                                                                                                                                                                       Contact: Sanjay Kumar
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                                                                                                                              sanjay_kumar-1@gsk.com
imer: T7.
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/organism≈"Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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/clone="UUGC2M0069B05"
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/strain="C57BL/6J"
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85.7%;
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RESULT 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         119 Plant Science, Cornell University, Ithaca, NY 14853-5904, USA
Tel: 607 254 5418
Fax: 607 255 0599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Arabidopsis thaliana (thale cress)
Arabidopsis thaliana
Arabidopsis thaliana
Bukaryota, Viridiplantae, Streptophyta; Embryophyta; Tracheophyta;
Eukaryota, Viridiplantae, Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnollophyta; eudicotyledons; core eudicots;
Spermatophyta; Magnollophyta; eudicotyledons; core eudicots;
Tosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7
   AZ432757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Department of Horticulture Cornell University
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Guo, Y., Cai, Z. and Gan, S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CD533465 21 bp mRNA linear EST 31-DEC-2003
31P16 Arabidopsis Leaf Senescence Library Arabidopsis thaliana cDNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Insert Length: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Email: sg288@cornell.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Susheng Gan
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                                                                                             ATCTTTCTCTTTCT 16
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                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                   /tissue_type="Leaf"
/dev stage="Yellow Leaf With Greenish Base Area"
/lab_host="E. coll"
/clone_lib="Arabidopsis Leaf Senescence Library"
/note="Organ: Rosette Leaf; Vector: pBluscript SKII+;
/note="Organ: Rosette Leaf; Vector: pBluscript SKII+;
Site_1: EcoRI; Site_2: EcoRI; Senescent rosette leaves #5
and #6 (counted from the bottom) were harvested and
immediately frozen in liquid N2. The leaves were visibly
yellow excepted for the leaf base areas that were still
greenish."
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/lab_host="E.coli DH10 B"
/clone_lib="HNC (Human Normal Cartilage)"
/note="Vector: pSPORT I; Site_1: Sall; Site_2: NotI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /mol_type="mRNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           organism="Arabidopsis thaliana"
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Pred. No. 2.7e+06;
0; Mismatches 2;
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Best Local Similarity
Matches 13; Conserv
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19
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AZ432757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       High quality sequence stop: 19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error:
Plate: 0218 row: L column: 14
Seq primer: CGTTGTAAAACGACGGCCAGT
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University of Utah
Rm. 308, Biomedical Polymers Res
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleoston Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; I (bases 1 to 19)

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhaueern,A. and Wright,D.,Weiss,R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           plasmid inserts
Unpublished (2000)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Robert B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mouse whole genome scaffolding with paired end reads from 10kb
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                                           CCCATCTCTCTCTTCT
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                                                                                                         Conservative
                                                                                                                                                                                                                                (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWH22 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note="Vector: PWD42nv; Purified genomic DNA from M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /lab_host="E. Coli strain XL10-Gold, T1-resistant, /clone_lib="Mouse_10kb_plasmid_UUGCIM_library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /mol_type="genomic DNA"
/strain="C57BL/6J"
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76.5%;
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Pred. No. 3.3e+06;
0; Mismatches 4;
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Search completed: September 15, 2005, 02:08:15
Job time : 1370.12 secs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gossypium hirsutum (upland cotton)
Gossypium hirsutum
Gossypium hirsutum
Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Malvales; Malvaceae; Malvoideae; Gossypium.

1 (bases 1 to 20)
Patil, M.A., Pierce, M.L., Phillips, A.L., Venters, B. and
Essenberg, M.K.
A pursuit of genes active in defense of upland cotton against
bacterial blight
Unpublished (2004)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Contact: Margaret Essenberg
Biochemistry and Molecular Biology
Oklahoma State University
246 Noble Research Centre, Stillwater, OK 74078, USA
Tel: 4057446203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SP1-A4(P6-E4) A suppression subtractive hybridization cDNA library from bacterial-blight-resistant cotton Gossypium hirsutum cDNA clone SP1-A4(P6-E4), mRNA sequence.
CF932153
                                                                                                                                     2 CGCACCCATCTCTCTCC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: margess@okstate.edu
Seq primer: REVERSE
High quality sequence stop
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EST.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  quality sequence stop: 20.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                    /organism="Gossypium hirsutum"
/mol type="mRNA"
/culTivar="Im216"
/db xref="faxon:3635"
/clome="SP1-A4(P6-E4)"
/tissue_type="Foliar leaves inoculated with Xanthomonas campestris gv. malvacearum 3631"
/dev_stage="8, 14, 20, 30, 45 and 60 hours post inoculation"
/clome_lb="A suppression subtractive hybridization cDNA library from bacterial-blight-resistant cotton"
/note="Equal quantities of RNA from all stages were combined prior to mRNA isolation. In the cDNA subtraction procedure, the reference cDNA was from non-inoculated leaves"
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OM nucleic - nucleic search, using sw model
                                                                                                                                                                                       Database :
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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Gapop 10.0 , Gapext 1.0
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22
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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BD192520	A27240	AR287299	AR206326	AR140320	AR170398	AR374987	AR206325	I49134	BD077068	BD077066	BD077065	BD077064	BD077063	AX203700	AX146648	I49133	BD077067	149132	ID
BD192520 Compositi	A27240 Antiviral D	AR287299 Sequence	AR206326 Sequence	AR140320 Sequence	AR170398 Sequence	AR374987 Sequence	AR206325 Sequence	I49134 Sequence 8	BD077068 Novel HIV	BD077066 Novel HIV	BD077065 Novel HIV	BD077064 Novel HIV	BD077063 Novel HIV	AX203700 Sequence	AX146648 Sequence	I49133 Sequence 7	BD077067 Novel HIV	I49132 Sequence 6	Description

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45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21
14.4	15	15.4	15.4	15.4	16	16	16.8	17	17	17	17	17	17	17	17	17	18	18.4	19	19	19	19	19	19
65.5	68.2	70.0	70.0	70.0	72.7	72.7	76.4	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	81.8	83.6	86.4	86.4	86.4	86.4	86.4	86.4
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I78665	126577	BD227848	AR149975	AR100320	AX540488	I78667	AR206344	AR156286	AR116258	AR055037	A45278	AX952328	AX418589	AR486969	I58741	128579	AX772003	AR206343	AX363503	AR430157	AR260561	AR260545	AR260544	I72636
I78665 Sequence	I26577 Sequence 2	BD227848 Antisense	AR149975 Sequence	AR100320 Sequence	AX540488 Sequence	178667 Sequence 22	AR206344 Sequence	AR156286 Sequence	AR116258 Sequence	AR055037 Sequence	A45278 Sequence 9	AX952328 Sequence	AX418589 Sequence	AR486969 Sequence	I58741 Sequence 32	I28579 Sequence 32	AX772003 Sequence	AR206343 Sequence	AX363503 Sequence	AR430157 Sequence	AR260561 Sequence	AR260545 Sequence	AR260544 Sequence	I72636 Sequence 10

ALIGNMENTS

RESULT 2 BD077067 LOCUS DEFINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM REFERENCE	Query Match Best Local; Matches 2; Matches 1 Qy 1 Db 1	SOURCE SOURCE ORGANISM REFERENCE AUTHORS TITLE JOURNAL FEATURES SOURCE ORIGIN	RESULT 1 149132 LOCUS DEFINITION ACCESSION VERSION
BD077067 BD077067 Rovel HIV-specific synthetic oligonucleotide and method of using the same. BD077067 BD077067.1 GI:22622670 JP 200151484-A/5. Human immunodeficiency virus Human immunodeficiency virus Viruses; Retroid viruses; Retroviridae; Lentivirus; Primate lentivirus group. 1 (bases 1 to 22)	Query Match 100.0%; Score 22; DB 6; Length 22; Best Local Similarity 100.0%; Pred. No. 4.6; Best Local Similarity 100.0%; Pred. No. 4.6; Matches 22; Conservative 0; Indels 0; Gaps 0; 1 TCGCACCCATCTCTCTCTTCT 22	Unknown. Unknown. Unknown. Unclassified. 1 (bases 1 to 22) 1 (bases 1 to 22) Cohen,A.S., Bourque,A. and Vilenchik,M. Method for analyzing oligonucleotide analogs Patent: US 562727-A 6 06-MAY-1997; Location/Qualifiers 1. 22 /organism="unknown" /mol_type="unassigned DNA"	I49132 22 bp DNA linear PAT 07-OCT-1997 Sequence 6 from patent US 5627277. I49132 I49132.1 GI:2467595

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DEFINITION
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AUTHORS
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HYBRIDON INC
OS Human immunodeficiency virus
PN JP 2001514884-A/5
PD 18-SEP-2001
PF 05-AUG-1998 JP 2000509820
PR 19-AUG-1997 US 08/914827
PI SUDHIR AGRAWAL
PC C12N15/09,AG1K31/7125,AG1P31/18,C121
CCC NOVel HIV-specific synthetic oligon
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Novel HIV-s
the same
           synthetic construct
synthetic construct
other sequences; art
                                                                          AX146648 21 bp
Sequence 2 from Patent W00134093
AX146648
                                                                                                                                                                                                                                                                                                                                 Unclassified. 21)
1 (bases 1 to 21)
Cohen, A.S., Bourque, A. and Vilenchik, M. Method for analyzing oligonucleotide ar Patent: US 5627277-A 7 06-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22;
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                                                                AX146648.1
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19-AUG-1997 US 08/914827
SUDHIR AGRAWAL
C12N15/09, A61K31/7125, A61F31/18, C12N15/00
Novel HIV-specific synthetic oligonucleotide and
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/mol_type="genomic DNA"
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                                                                                                                                                                                                                                                                                             organism="unknown"
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                                                               GI:14285041
                                                                                                                                                                                                                                                                               _type="unassigned DNA"
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             artificial sequences
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BD077063
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ACCESSION
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AX203700
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Potentiation of prodrug efficacy
Patent: WO 0134093-A 2 17-MAY-2001;
HYBRIDON, INC. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                       21;
                                               Human immunodeficiency virus
Human immunodeficiency virus
Viruses, Retroid viruses; Retroviridae; Lenti
lentivirus group.
1 (bases 1 to 21)
Agrawal,S.
Novel HIV-specific synthetic oligonucleotide
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BD077063.1 GI:22622666
JP 2001514884-A/1.
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synthetic construct
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AX203700
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Novel HIV-specific synthetic
 HYBRIDON INC
OS Human in
                          Patent:
                                      the same
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ilarity 100.0%;
Conservative
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ilarity 100.0%;
Conservative (
  Human immunodeficiency virus
                         JP 2001514884-A 1 18-SEP-2001;
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/mol_type="unassigned DNA"
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                                                                                                                                                                                                                                                                                                                                                                                    /note="Scrambled mixed backbone oligonucleotides,
nucleotides 1-4 and 18-21 and 2'0 methylribonucleosides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
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/mol_type="unassigned DMA"
/mb xref="taxon:32630"
/note="oligonucleotide sequence"
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PAT 30-AUG-2001

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                                                                                                                                                                                                    Patent: JP 2001514884-A 2 18-SEP-2001;
HYBRIDON INC
OS Human immunodeficiency virus
PN JP 2001514884-A/2
PD 18-SEP-2001
PF 05-AUG-1998 JP 2000509820
PR 19-AUG-1997 US 08/914827
PI SUDHIR AGRAWAL
PC C12N15/09,A61K31/7125,A61P31/18,C121
CC Novel HIV-specific synthetic oligon
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Human immunodeficiency virus
Viruses; Retroid viruses; Re
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BD077064.1 GI:22622667
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18-SEP-2001
05-AUG-1998 JP 2000509820
19-AUG-1997 US 08/914827
SUDHIR AGRAWAL
C12N15/09,A61K31/7125,A61P31/18,C12N15/00
NOVel HIV-specific synthetic oligonucleotide
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Novel HIV-specific synthetic oligonucleotide
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                                                                                                                                                /organism='Human
Location/Qualifiers
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                                                                                                  /organism="Human immunodeficiency
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/mol_type="genomic DNA"
/db_xref="taxon:12721"
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VERSION
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Matches 21
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  Patent: JP 2001514884-A 4 18-SEP-2001;
HYBRIDON INC
OS Human immunodeficiency virus
PR 2001514884-A/4
PD 18-SEP-2001
PF 05-AUG-1998 JP 2000509820
PR 19-AUG-1997 US 08/914827
PI SUDDIR AGRAWAL
PC C12N15/09,A61K31/7125,A61P31/18,C12N
CC Novel HIV-specific synthetic oligonu
                                                                                                                                                                                    Human immunodeficiency virus
Human immunodeficiency virus
Viruses; Retroid viruses; Retroviridae; Lentivirus;
lentivirus group.
1 (bases 1 to 21)
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Novel HIV-specific synthetic oligonucleotide and method of using
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Novel HIV-specific synthetic oligonucleotide
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05-AUG-1998 JF 2000509820
19-AUG-1997 US 08/914827
SUDHIR AGRAWAL
C12N15/09,A61K31/7125,A61P31/18,C12N15/00
Novel HIV-specific synthetic oligonucleotide
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05-AUG-1998 JP 2000509820
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SUDHIR AGRAWAL
C12N15/09,A61K31/7125,A61P31/18,C12N15/00
NOVEL HIV-specific synthetic oligonucleotide
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Location/Qualifiers
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/mol_type="genomic DNA"
/db_xref="taxon:12721"
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RESULT 11
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Novel HIV-specific synthetic oligonucleotide
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JP 2001514884-A/6.
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Novel HIV-specific synthetic oligonucleotide
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/mol_type="genomic DNA"
/db_xref="taxon:12721"
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/mol_type="genomic DNA"
/db_xref="taxon:12721"
                      GI:2467597
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tive 0; Mismatches
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Building blocks with carbamate internucleoside
oligonucleotides derived therefrom
Patent: US 6605708-A 1 12-AUG-2003;
Location/Qualifiers
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Kandimalla, R. and Agrawal, S.
Cooperative oligonucleotides
Patent: US 6372427-A 5 16-APR-2002;
Location/Qualifiers
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AR206325
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Cohen, A.S., Bourque, A. and Vilenchik, M. Cohen, A.S., Bourque, A. and Vilenchik, M. Method for analyzing oligonucleotide an Patent: US 5627277-A 8 06-MAY-1997;
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       /organism="unknown"
/mol_type="mRNA"
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/mol_type="unassigned DNA"
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/mol_type="unassigned DNA"
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AR170398
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Search completed: September 15, 2005, 01:23:27 Job time: 809.372 secs
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                                              l (bases 1 to 22)
Chang, L.-J.
Lentiviral vectors
Patent: US 6207455-A 8 27-MAR-2001;
Location/Qualifiers
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                                                                                                                                                                                                                                                                          Unknown
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Sequence 8 from patent US 6207455.
AR140320
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Unclassified.
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Sequence 24 from patent US 6291438.
AR170398
AR170398.1 GI:17908357
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/mol_type="unassigned DNA"
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/mol_type="unassigned DNA"
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

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Database :
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Aax19779 Human imm Aax19783 Human imm Aax19784 Human imm Aax19781 Human imm Aax19781 Human imm Aax19781 Human imm Aax19780 Human imm Aax19780 Human imm Aax19780 Human imm Aah11706 HIV-1 gag Aah13028 Control m Acc59011 Human Gag Adc24663 Antisense Abx90517 Mixed bac Aar446110 Oligo 1 c Aar41968 HIV-1 gag Ada18856 Cooperati Aad22554 Human imm Aat1969 HIV-1 gag Aar1969 HIV-1 gag Aar1969 HIV-1 gag Aar1969 HIV-1 gag Aar1969 HIV-1 gag Aar1968083 Vector pT Aaf85618 HIV-1 vec	Description

The present sequence represents a synthetic oligonucleotide sequence, antisense to a conserved gag region of the HIV-1 genome. The antisense oligonucleotide can be used to treat HIV-1 or HIV-2 infection in a

Claim 1; Page 64; 64pp; English.

New synthetic oligonucleotide sequences antisense to conserved gag region of ${\tt HIV-1}$ genome.

WPI; 1999-228890/19.

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45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21
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Aad32574 Antisense	Aad32583 Antisense	Aad32581 Antisense	Aad32580 Antisense	Aad32573 Antisense	Aad32575 Antisense	Aad32578 Antisense	Aad32579 Antisense	Aad32585 Antisense	Aad32576 Antisense	Aax23632 Deletion	Aax18753 Target HI	Aav28224 Antisense	Aat10969 HIV gag c	Aaq61815 Antisense	Aaq43467 HIV viral	Adg36361 HIV siNA	Adg36335 HIV siNA	Adg35623 HIV siNA	Adg36315 HIV siNA	Adg36324 HIV siNA	Adg35577 HIV sina	VIΗ	Adg35586 HIV siNA	Adal8563 Cooperact

ALIGNMENTS

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05-AUG-1998;
                                                                                                                                                                                       modified_base
                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                   Human immunodeficiency virus; {\rm HIV}_i phosphorothicate linkage; {\rm gag}_i infection; antisense oligonucleotide; {\rm ss}.
                                                                                                                                                                                                                                                          Human immunodeficiency virus antisense oligonucleotide SEQ ID NO:5.
                                                                                                                                                                                                                                                                          08-JUN-1999 (first entry)
                                                                                                                                                                                                                                                                                          AAX19779;
                                                                                                                                                                                                                                                                                                       AAX19779 standard; DNA; 22 BP.
                                                                                Agrawal S;
                                                                                                             19-AUG-1997;
                                                                                                                                           25-FEB-1999
                                                                                                                                                          WO9909154-A2
                                                                                                                                                                                                              Human immunodeficiency virus 1.
                                                                                               (HYBR-) HYBRIDON INC.
                                                                                                             97US-00914827
                                                                                                                             98WO-US016345
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1. .22
                                                                                                                                                                         /note= "phosphorothioate linkages"
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RESULT 2
ANAX19783
ID ANAX1
XX ANAX1
AX ANAX1
AX
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Matches 22
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Matches 21; Conserv
                                                                                                                                                                                                                         Sequence 21
                                                                                                                                                                                                                                                              The present sequence represents a synthetic oligonucleotide se antisense to a conserved gag region of the HIV-1 genome. The a oligonucleotide can be used to treat HIV-1 or HIV-2 infection mammal, or inhibit HIV-1 or HIV-2 in a cell. The oligonucleotic cell toxicity, provokes less immunostimulus than prior art, an rich antisense HIV oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New synthetic oligonucleotide sequences antisense to conserved of {\tt HIV-1} genome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human immunodeficiency virus; HIV; phosphorothioate infection; antisense oligonucleotide; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 13; Page 63; 64pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-FEB-1999.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAX19783 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (HYBR-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         immunodeficiency virus antisense oligonucleotide SEQ ID NO:4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HYBRIDON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
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                                                                                       CGCACCCATCTCTCTCCTTCT
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                                                                                                                                                                                                                           BP; 2
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                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98WO-US016345
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/note=
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                                                                                                                              95.5%; L.
100.0%; Pr
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"phosphorothioate linkages"
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                                                                                                                                    Score 21; DB Pred. No. 17; O; Mismatches
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Pred. No.
                                                                                         22
                                                                                                                                                                                                                         7 T; 0 U; 0 Other;
                                                                                                                                                           DB 2;
17;
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                                                                                                                                    ٥,
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GC-
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RESULT 4
AAX19781
IID AAX1
XX
AC AAX1
XX
DT 08-J
XX
DE Huma
XX
KW Huma
XX
OS Synt
OS Synt
OS Huma
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Synthetic.

Human 08-JUN-1999 AAX19781;

immunodeficiency virus

antisense oligonucleotide

SEQ ID

(first entry)

AAX19781 standard;

DNA;

21

₽P

0

Human immunodeficiency virus 1.

Human immunodeficiency virus; HIV; phosphorothioate linkage; gag; infection; antisense oligonucleotide; ss.

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RESULT 3
AAXI19784
ID AAXI
XX AAXI
AC AAXI
XX AAXI
AC AAXI
XX Huma
XX 
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Matches
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                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New synthetic oligonucleotide sequences antisense to of {\tt HIV-1} genome.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nfection;
                                                                                                                                          Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     immunodeficiency virus; HIV; phosphorothioate linkage; gag;
tion; antisense oligonucleotide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                immunodeficiency virus
                                                                                                                21;
                                                                                                                                          Similarity
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                                TCGCACCCATCTCTCTCCTTC 21
                                                                                                                                                                                                                          21 BP; 2 A; 11 C; 1 G; 7 T; 0 U; 0 Other;
                                                                                                                Conservative
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                                                                                                                                                                     95.5%;
                                                                                                                                       100.0%;
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21
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                                                                                                                                       DB
17;
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                                                                                                                Indels
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AAX19782
ID AAX1
XX AAX1
AC AAX1
AC AAX1
DT 08-J
XX Huma
XX Huma
XX Synt
OS Synt
OS Huma
XX Huma
XX Woos
FH Key
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                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 21
                                                                                                                                                                                                        Human immunodeficiency virus; HIV;
                                                                                                                                                                                                                                                   08-JUN-1999
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modified_base
                      19-AUG-1997;
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                                                                                                                                                                                                                                                                                             AAX19782 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New synthetic oligonucleotide sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-AUG-1998;
                                                                25-FEB-1999
                                                                                                                                                               Human
                                                                                                                                                                                              infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Agrawal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-FEB-1999
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 (HYBR-) HYBRIDON INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (HYBR-) HYBRIDON
                                                                                                                                                                                                                                                                                                                                                                                                                                                              antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1999-228890/19
                                                                                                                                                              immunodeficiency virus
                                                                                                                                                                                                                             immunodeficiency virus antisense oligonucleotide SEQ ID NO:2.
                                                                                                                                                                                                                                                                                                                                                                        2 CGCACCCATCTCTCTCCTTCT 22
                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page 63; 64pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            genome.
                                                                                                                                                                                                                                                                                                                                                    CGCACCCATCTCTCTCCUUCU 21
                                                                                                                                                                                            antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 2 A; 11 C; 1 G; 4 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                            provokes less immunostimulus than prior HIV oligonucleotide
                     97US-00914827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97US-00914827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98WO-US016345
                                           98WO-US016345
                                                                                                                                        Location/Qualifiers
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                                                                                                                                                                                                                                                                                             DNA;
                                                                                                                                                                                                                                                                                                                                                                                                        95.5%;
85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "phosphorothioate linkages"
                                                                                                         "phosphorothioate linkages"
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                                                                                                                                                                                                                                                                                                                                                                                                        Score 21;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                       phosphorothioate linkage; gag;
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                                                                                                                                                                                                                                                                                                                                                                                                                   DB 2;
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RESULT 6
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Best Local S
Matches 21
The present sequence represents a synthetic oligonucleotide sequence, antisense to a conserved gag region of the HIV-1 genome. The antisense oligonucleotide can be used to treat HIV-1 or HIV-2 infection in a mammal, or inhibit HIV-1 or HIV-2 in a cell. The oligonucleotide has less cell toxicity, provokes less immunostimulus than prior art, and is a GC-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present sequence represents a synthetic oligonucleotide sequence, antisense to a conserved gag region of the HIV-1 genome. The antisense oligonucleotide can be used to treat HIV-1 or HIV-2 infection in a mammal, or inhibit HIV-1 or HIV-2 in a cell. The oligonucleotide has less cell toxicity, provokes less immunostimulus than prior art, and is a GC-rich antisense HIV oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 2 A; 11 C; 1 G; 7 T; 0 U; 0 Other;
                                                                        Claim 8; Page 63;
                                                                                                         New synthetic oligonucleotide sequences antisense to
                                                                                                                                WPI; 1999-228890/19
                                                                                                                                                                                                                           05-AUG-1998;
                                                                                                                                                                                                                                                                         WO9909154-A2
                                                                                                                                                                                                                                                                                                                   Key
modified_base
                                                                                                                                                                                                                                                                                                                                                          Human
                                                                                                                                                                                                                                                                                                                                                                      Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                               Human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAX19780
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New synthetic oligonucleotide sequences antisense to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-228890/19
                                                                                                                                                      Agrawal
                                                                                                                                                                                                    19-AUG-1997;
                                                                                                                                                                                                                                                  25-FEB-1999.
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                                                                                                                                                                             (HYBR-) HYBRIDON INC
                                                                                                                                                                                                                                                                                                                                                                                            infection;
                                                                                                                                                                                                                                                                                                                                                                                           immunodeficiency virus; HIV; pho
tion; antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                              immunodeficiency virus antisense oligonucleotide SEQ ID NO:1.
                                                                                                                                                                                                                                                                                                                                                          immunodeficiency virus
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                                                                                              genome.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCGCACCCATCTCTCTCCTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first
                                                                                                                                                                                                    97US-00914827
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                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                        64pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     95.5%; Pr/
100.0%; Pr/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      entry)
                                                                                                                                                                                                                                                                                               "phosphorothioate linkages"
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                       phosphorothioate linkage; gag;
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17;
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                                                                                                       conserved gag region
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RESULT 7
AAH21706
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Best Local S
Matches 18
UGACACTGTTCTACUCAC-3'. Also described are: (1) potentiating the activity of a prodrug without producing side effects, comprising administering a polyanion before the prodrug; and (2) potentiating the activity of a prodrug without producing side effects, comprising co-administering a polyanion and a prodrug in a dosage which would not produce a therapeutic effect in the absence of the polyanion. The methods can be used for potentiating prodrug activity without producing side effects. The potentiating agents maximise the efficacy of the prodrugs, reducing the dosage to be administered to less toxic levels. The present sequence
                                                                                                                                                                                                                                     The present invention describes a method for potentiating prodrug activity, without producing side effects, comprising co-administering prodrug with a polyanion which is not an oligonucleotide having two 5' and four 3'2'-0-methylribonucleosides with the sequence: 5'-
                                                                                                                                                                                                                                                                                                                                                                                                                              Potentiating prodrug activity, without producing co-administering a prodrug with a polyanion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-300586/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-SEP-2003
13-AUG-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (HYBR-) HYBRIDON INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Phosphorothioate; MDM-2; HIV-1;
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                                                                                                                                                                                                                                                                                                                                                                             Page 12; 26pp; English.
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(first en
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                te; MDM-2; HIV-1; gag; pancreatic cancer; tumour;
colon cancer; prodrug; polyanion; ss.
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/note= "2'-0-methylribonucleosides'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag= b
/note= "2'-O-methylribonucleosides"
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Pred. No.
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Best Local S
Matches 18
  Matches
            Query Match
Best Local &
                                                                             The invention provides a composition comprising one or more antisense oligonuclectides directed against vascular endothelial growth factor (VEGF) where the antisense oligonuclectides inhibits proliferation of cells exhibiting autocrine VEGF activity at an IC 5 0 concentration of between 0.5-2.5 micro Ma. The antisense oligonuclectides may be directed against VEGF for inhibiting cancer cell proliferation and angiogenesis. Preferably the oligonuclectide AAH23032 (a modified version of AAH22984) is used and may be utilized to treat Kaposi's sarcoma, ovarian cancer, prostrate cancer, pancreatic cancer or melanoma. The present sequence represents a control mixed backbone scrambled oligonuclectide
                                                                                                                                                                                                                                                              Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, angiogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               represents a phosphorothicate oligonucleotide complementary to HIV-1 gag, which is used in an example from the present invention for the treatment of colon cancer tumour-bearing mice. (Updated on 11-SEP-2003 to
                                                      Sequence
                                                                                                                                                                                                                                                                                                                      WPI; 2001-451898/48.
                                                                                                                                                                                                                                                                                                                                                Gill PS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 2 A; 11 C; 1 G; 4 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standardise OS field)
                                                                                                                                                                                                                                    Example 13; Page 57; 105pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                     19-JAN-2000; 2000US-00487023
                                                                                                                                                                                                                                                                                                                                                                                                                                19-JAN-2001; 2001WO-US000019
                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200152904-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antisense therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Vascular endothelial growth factor; VEGF; antisense; angiogenesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAH23028;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAH23028 standard;
                                                                                                                                                                                                                                                                                                                                                                           (GILL/) GILL P S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     proliferation; Kaposi's sarcoma; cancer; melanoma;
  18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Н
              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mixed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                         21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               UCGCACCCATCTCTCTCCUUC
                                                                                                                                                                                                                                                                                                                                              Masood R;
  Conservative
                                                       BP; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              backbone
                                                      A; 11 C; 1 G; 4 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                95.5%;
85.7%;
              95.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          scrambled oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ₽P
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••
              Score 21;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 21; DE
Pred. No. 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           w
                 DB
17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB
                           4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4.
  0,
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                           Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
  Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cytostatic;
 0
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Gaps
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UCGCACCCATCTCTCTCCUUC

21

TCGCACCCATCTCTCTCCTTC 21

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RESULT 9 ACC59011

ACC59011 standard; DNA;

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RESULT 10
ADC24663
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07-NOV-2002

US2002165174-A1

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В
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                                                                                                               Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                            antiinflammatory, virucide, tuberculostatic, and protozoacide activity. The compounds may be useful in the manufacture of a medicament for the delivery of material that affects gene translation or gene transcription and modulates a biological process, in medical therapy. A compound is also useful for treating cancer, viral diseases such as infection caused by HIV, hepatitis (hepatitis B, hepatitis C and hepatitis D), herpes, TB, Epstein-Barr virus, malaria, influenza virus, Para influenza virus, moltoviruses, respiratory syncytial virus, rhinoviruses, polioviruses, coxsackie-viruses, echoviruses, repiratory syncytial virus, rhinoviruses, gastroenteritis viruses, riverses, respiratory syncytial virus, re
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Compound useful for treating e.g. cancer comprises optionally stabilized nucleic acid, aptamer, antisense sequence, or antisense mimic conjugated to a ligand for the transcobalamin receptor or intrinsic factor receptor
                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                           molluseum vontagiosum virus, human parvovirus B19, cytomegalovirus, papillomavirus, varicella zoster, arenaviruses or filoviruses. The present sequence is used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                other biological modifier, aptamer, antisense sequence, or antisense mimic conjugated directly or through a linker to a ligand for the transcobalamin receptor or intrinsic factor receptor. A compound of the invention has cytostatic, antiviral, anti-HIV, hepatotropic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to a novel compound comprising an optionally stabilised nucleic acid or its analogue encoding a peptide, protein or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 88; 156pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Collins DA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; antisense; transcobalamin receptor; intrinsic factor receptor;
cytostatic; antiviral; anti-HIV; hepatotropic; antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human Gag/HIV-1 antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17-SEP-2001; 2001US-0322821P.
13-SEP-2002; 2002US-0410627P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-JUL-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17-SEP-2002; 2002WO-US029571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO2003025139-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   virucide; tuberculostatic; protozoacide; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACC59011;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MAYO-) MAYO FOUND MEDICAL EDUCATION & RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2003-430085/40
                                                                                                                                          Similarity
                                                                                                                                                                                                                              21
                                                   TCGCACCCATCTCTCTCTTC 21
                                                                                                                                                                                                                        BP; 2 A; 11 C; 1 G; 4 T; 3
                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Callstrom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first
                                                                                                                                          95.5%;
85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Prendergast FG;
                                                                                                                                       Score 21;
Pred. No.
21
                                                                                                                  Mismatches
                                                                                                                                                                                                                           U; 0 Other;
                                                                                                                                                                     DB 8;
                                                                                                            0,
                                                                                                                                                                  Length 21;
                                                                                                               Indels
                                                                                                            0
                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                          human
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RESULT 11
ABX90517
ID ABX90
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                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to a cobalamin-bound detectable or therapeutic agent in combination with a cobalamin transport protein. In the manufacture of a medicament to increase the uptake of detectable agent useful in radioimaging or therapeutic agent for treatment of a disorder associated with abnormal cellular proliferation, an infectious disease and cardiovascular disorder; as an antibiotic or antiviral agent for transcription of all factor. The method increases efficiency of vitamin B12 or vitamin B12 conjugated materials. The presents sequence represents an antisense nucleotide that can be conjugated to the carrier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Composition useful for the treatment of e.g. infectious disease comprises a cobalamin-bound detectable or therapeutic agent in combination with a cobalamin transport protein.
                                                                              Antisense; ss; probe; VEGF; vascular endothelial growth factor; angiogenesis; neoplastic proliferation; cellular proliferation.
                                                                                                                     Mixed backbone scrambled control antisense oligonucleotide
                                                                                                                                                   01-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 4; SEQ ID NO 11; 97pp; English.
                                                                                                                                                                              ABX90517;
                                                                                                                                                                                                        ABX90517 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                      described in the present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-SEP-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cardiovascular disorder; antibiotic; antiviral agent; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cobalamin-bound detectable; radioimaging; infectious disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Antisense DNA #11 that can be conjugated to the carriers of invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADC24663 standard; DNA; 21 BP
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                                                                                                                                                                                                                                                                                                                                   l Similarity
18; Conserv
                                                                                                                                                                                                                                                                                                       regeaccearererectre 21
                                                                                                                                                                                                                                                                                                                                                                                            21 BP; 2
                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2002WO-US031038.
                                                                                                                                                 (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FOUND MEDICAL EDUCATION & RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                            A; 11 C; 1 G; 4 T; 3
                                                                                                                                                                                                                                                                                                                                                95.5%;
85.7%;
                                                                                                                                                                                                          ВP
                                                                                                                                                                                                                                                                                                                                                 Score 21; DB
Pred. No. 17;
                                                                                                                                                                                                                                                                                                                                      Mismatches
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                                                                                                                                                                                                                                                                                                                                                               B
                                                                                                                                                                                                                                                                                                                                                                                            0 Other;
                                                                                                                                                                                                                                                                                                                                                             10; Length 21;
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                                                                                                                                                                                                                                                                                                                                    <u>.</u>
                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                      carriers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            agent;
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ARESULT 12
AAT46110
ID AAT46616
XX AAT46
XX AAT46
XX AAT46
XX Carba
XW Carb
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 18
  Habus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          carbamate; internucleoside; linkage; phosphodiester;
nuclease resistant; stable; stable duplex formation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Oligo 1 contg. carbamate internucleoside linkage.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a composition comprising an antisense oligonuclectide directed against vascular endothelial growth fac (VEGF). The antisense oligonuclectide is useful for preparing a composition treating cancer, neoplastic proliferation, abnormal proliferation and preventing angiogenesis. The present sequence scrambled control antisense oliginuclectide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gill PS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-JAN-1998; 98US-00016541.
19-JAN-2000; 2000US-00487023.
19-JAN-2001; 2001WO-US000019.
                                                                                             28-JUL-1993;
                                                                                                                                        27-JUL-1994;
                                                                                                                                                                                        09-FEB-1995.
                                                                                                                                                                                                                                   WO9504066-A1
                                                                                                                                                                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-FEB-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAT46110;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAT46110 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    vascular endothelial growth for treating cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (GILL/)
(MASO/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                            modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 13; Page 20; 54pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New composition comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-JAN-1997;
                                               (HYBR-) HYBRIDON INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2003-255224/25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Masood R;
Agrawal S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 2 A; 11 C; 1 G; 4 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2001US-00805761.
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                                                                                             93US-00098945
                                                                                                                                          94WO-US008655
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                                                                                                                                                                                                                                                                                                   20. .21
/*tag=
                                                                                                                                                                                                                                                                                                                                                                    /*tag=
                                                                                                                                                                                                                                                                              /*tag= b
/note= "3'-NH-COO-5'
                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                              note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      95.5%;
85.7%;
                                                                                                                                                                                                                                                                                                                                                 "phosphodiester backbone"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              an antisense oligonucleotide directed against factor, useful for preparing a composition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ₽P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 21;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                              (carbamate) linkage"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            phosphorothicate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  abnormal cellular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18
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                                                                                                          Query Match
Best Local S
                                                     Matches
                                                                                                                                             AAT46110-16 are oligonucleotides (ON) contg. novel carbamate internucleoside linkages. Dinucleoside carbamates having the structure 5'o nucleoside-3'-NHCOO-5'-nucleoside-3' are claimed as building blocks for ON synthesis. The carbamate internucleoside linkages provide increased resistance to nucleolytic degradation without hindering the ability of the ONs to undergo base stacking, and in prefd. configurations, without destabilising the double helix formed between the ONs and their
                                                                                                         Sequence
                                                                                                                                                                                                                                                             Example 2;
                                                                                                                                   complementary target nucleic acids
                                                                                                                                                                                                                                                                                                    carbamate to form
                                                                                                                                                                                                                                                                                                                                             WPI; 1995-082177/11.
                                                                                                                                                                                                                                                                                                   oligo:nucleotide building blocks -
bamate to form prods. with nuclease
                                                     20;
N
                        بر
                                                                  Similarity
              TCGCACCCATCTCTCTCCTT
                                                                                                          21
rcecacccarcrererer 21
                                                                                                                                                                                                                                                             Page 18; 38pp;
                                                                                                         BP; 2 A; 11 C; 1 G; 7 T; 0
                                                     Conservative
                                                               90.9%;
                                                                                                                                                                                                                                                             English.
                                                   0
                                                                Score 20;
Pred. No.
                        20
                                                     Mismatches
                                                                                                         u; o
                                                                                                                                                                                                                                                                                                    comprising a di:nucleoside resistance and stable duple
                                                                45;
                                                                             2:
                                                                                                         Other;
                                                   0,
                                                                             Length
                                                     Indels
                                                                                                                                                                                                                                                                                                      stable duplex
                                                   0
                                                   Gaps
                                                   0
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RESULT 13
AAT41968
                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                       gene function; ss
                                                                                                                                                                                                                                          Co-operative binding; duplex; antisense inhibition; target sequence; human immunodeficiency virus; HIV; dimerisation domain; T structure;
                                                                                                                                                                                                                                                                                                                                       24-JUN-1997
                                                                                                                                                                                                                                                                                                                                                                                                             AAT41968 standard; cDNA;
                                    12-APR-1995;
                                                                       04-APR-1996;
                                                                                                            17-0CT-1996.
                                                                                                                                                 WO9632474-A1.
                                                                                                                                                                                                                                                                                                                                                                          AAT41968;
(HYBR-) HYBRIDON INC
                                                                                                                                                                                                                                                                                                gag binding oligonucleotide used as
                                                                                                                                                                                                                                                                                                                                     (first entry)
                                    95US-00420672
                                                                       96WO-US004605
                                                                                                                                                                                                                                                                                                                                                                                                               21
                                                                                                                                                                                                                                                                                                                                                                                                               ВP
                                                                                                                                                                                                                                                                                                antisense
                                                                                                                                                                                                                                                                                                  HIV inhibitor.
```

AAT41965-T41994 are oligonucleotides (ON) that bind to HIV-1 mRNA and/or DNA and act as antisense inhibitors of HIV-1 gene expression. The ON are preferably used as duplexes, i.e. a first ON has a region that binds to an HIV-1 target sequence in a 5'-3' direction and a second region complementary to a second ON which has a first region which binds to the same target HIV-1 sequence but in a 3'-5' direction and a second region complementary to the first ON. Both ON bind to the HIV target sequence up

sequence up

Disclosure; Page 43; 84pp; English.

influenza virus.

Compsn. contg. at least two co-operative oligo:nucleotide(s) complementary to a target sequence - and with mutually compl dimerisation domains, for use as antisense inhibitors of HIV

mutually complementary hibitors of HIV and

WPI; 1996-477125/47. Kandimalla ER,

Agrawal

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밁 S

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RESULT 14
ANT94859
ID ANT94859
ID ANT94879
AC ANT94
AC Synth
AC SY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 20
The present oligonucleotide is an antisense oligonucleotide that binds to part of the gag gene of Human immunodeficiency virus type 1 (HIV-1) (ANT94853-54 and ANT94865). The oligonucleotide is used to exemplify the method of the invention. This method comprises two synthetic cooperative oligonucleotides, where each oligonucleotide comprises a region complementary to one of tandem, non-overlapping regions of a target nucleic acid, and a dimerisation domain at a terminus of each of the oligonucleotides. The dimerisation domains of the oligonucleotides are complementary to each other. The target nucleic acid is an mRNA, a single-stranded viral DNA, or a single-stranded viral RNA. The synthetic oligonucleotides can interact cooperatively to provide improved affinity, specificity, and biological activity as antisense molecules. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gag gene;
synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   until a certain point along the target sequence, where the two binding ON are in close proximity and the remainder of the binding ON bind each other. AM741965-741971 lack a dimerisation domain (domain hybridising to a second antisense ON) but these may be added to give extra stability to the inhibiting complex. The duplex/target site complex forms a T-shaped structure, inhibiting expression of HIV-1 nucleic acid. Also co-operative ON, when labelled, can be used to identify specific bacteria or viruses in cell cultures; to study function of specific genes as an alternative to use of 'knock out' animals. Co-operative ON have improved affinity and sequence specificity, reduced toxicity and better antisense activity compared with single, longer ON. Insertion of dimerisation domains into
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Anti:sense oligo:nucleotide compositions have at least 2 cooperative oligo:nucleotide(s) having a targetting and a dimerisation region - useful for inhibition of target nucleic acid expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HIV-1 gag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAT94859 standard; cDNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1997-512714/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kandimalla ER,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-APR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-OCT-1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antisense ON provides a more stable complex
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human immunodeficiency virus 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       22-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCGCACCCATCTCTCTCTT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              initiation codon region; target region; dimerisation domain; cooperative oligonucleotide; affinity; specificity; molecule; treatment; viral infection; influenza; HIV; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 17; 91pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 2 A; 11 C; 1 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 96US-00627967
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           97WO-US005683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Agrawal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 20;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <u>.</u>.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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RESULT 15
ADA18562
ID ADA18
AC ADA18
AC ADA18
AC ADA18
AC ADA18
AC ADA18
AC Coope
AX Coope
AX Coope
AX Coope
AX Synth
AX US200
AX I23-M
AX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                     The present invention relates to an oligonucleotide composition comprising a first and second synthetic cooperative oligonucleotides linked to their respective binding partner consisting of cyclodextrin, adamantane, streptavidin, or biotin. Each oligonucleotide has a region complementary to a tandem, non-overlapping region of a target nucleic acid that is separated by 0-3 bases. The oligonucleotide composition is useful as a pharmaceutical composition to inhibit the expression of nucleic acids in vitro, or for treating a mammal infected by HIV or by acquired immunodeficiency syndrome (AIDS). The cooperative oligonucleotides have improved sequence specificity for a single-stranded target, reduced toxicity, and improved biological activity as antisense molecules. The present sequence represents a cooperative oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cooperative oligonucleotide; binding partner; cyclodextrin; adamantane; streptavidin; pharmaceutical composition; nucleic acids expression; HIV; acquired immunodeficiency syndrome; AIDS; anti-HIV; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oligonucleotide composition used to, e.g. treat mammal infected by human immunodeficiency virus, comprises synthetic oligonucleotides linked to binding partner consisting of cyclodextrin, adamantane, streptavidin, or biotin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     compositions are used for inhibiting the expression of target nucleic acids. They can be used for the treatment of viral infections, e.g. influenza (AAVQ4801-17) or HIV (AATQ4863-92) infection. They can also used for the detection and study of target nucleic acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Kandimalla ER, Agrawal
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Fig 6; 29pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2003-606628/57
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(AGRA/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-APR-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cooperative oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         KANDIMALLA E R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21 BP; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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Pred. No.
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Search completed: September 15, 2005, 00:	Db 2 TCGCACCCATCTCTCTT 21
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ALIGNMENTS

REFERENCE AUTHORS TITLE JOURNAL ACCESSION VERSION KEYWORDS RESULT 2 BD077065 LOCUS LOCUS DEFINITION ACCESSION VERSION KEYWORDS RESULT 1 149133 Ś REFERENCE SOURCE ORGANISM 밁 ORIGIN SOURCE DEFINITION FEATURES Query Match Best Local S Matches 21 ORGANISM source 21; Human immunodeficiency virus Human immunodeficiency virus Viruses; Retroid viruses; Retroviridae; Lentivirus; Primate lentivirus group. 1 (bases 1 to 21) the same. BD077065 BD077065.1 GI:22622668 JP 2001514884-A/3. 1 (bases 1 to 21) Cohen,A.S., Bourque,A. and Vilenchik,M. Cohen,A.S., Bourque,A. and Vilenchik,M. Method for analyzing oligonucleotide analogs Patent: US 5627277-A 7 06-MAY-1997; Location/Qualifiers I49133 Sequence 7 from patent US I49133 I49133.1 GI:2467596 BD077065 21 Novel HIV-specific synthetic Unknown Unknown Similarity Unclassified. CGCACCCATCTCTCTCCTTCT CGCACCCATCTCTCTCCTTCT 100.0%; ilarity 100.0%; Conservative C /organism="unknown" /mol_type="unassigned 0 Score 21; DB 6; Length 21; Pred. No. 7.8; 21 21 Mismatches 21 bp 5627277. oligonucleotide and method DNA" DNA 0 Indels linear PAT PAT 07-OCT-1997 0; 27-AUG-2002 of using Gaps 0

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Novel HIV-specific synthetic oligonucleotide and the same Patent: JP 2001514884-A 3 18-SEP-2001;

HYBRIDON INC
OS Human immunodeficiency virus
P 2001514884-A/3
PD 18-SEP-2001
PR 05-AUG-1997 US 08/914827
PI SUUHIR AGRAWAL
PC C12N15/09,A61K31/7125,A61P31/18,C12N15/00
CC Novel HIV-specific synthetic oligonucleotic
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HYBRIDON INC
OS Human immunodeficiency virus
PN JP 2001514884-A/4
PD 18-SEP-2001
PF 05-AUG-1998 JP 2000509820
PR 19-AUG-1997 US 08/914827
PI SUDMIR AGRAWAL
PC C12N15/09,A61K31/7125,A61P31/18,C12N
CC Novel HIV-specific synthetic oligon
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SUDHIR AGRAWAL
C12N15/09, AGLX31/7125, AGLP31/18, C12N15/00
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SUDHIR AGRAWAL
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Method for analyzing oligonuclectide an
Patent: US 5627277-A 6 06-MAY-1997;
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SUDHIR AGRAWAL
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AX146648.1 GI:14285041
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Patent: WO 0134093-A 2 17-MAY-2001;
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Cohen, A.S., Bourque, A. and Vilenchik, M.
Cohen, A.S., Bourque, A. and Vilenchik, M.
Method for analyzing oligonucleotide analogs
Patent: US 5627277-A 8 06-MAY-1997;
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/mol_type="unassigned DNA"
/db xref="taxon:32630"
/noTe="oligonucleotide sequence"
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Novel HIV-specific synthetic
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Location/Qualifiers
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NOVel HIV-specific synthetic oligonucleotide
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05-AUG-1998 JP 2000509820
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/mol type="unassigned DNA"
/db_xref="taxon:32630"
/note="Scrambled mixed backbone oligonucleotides,
nucleotides 1-4 and 18-21 and 2'0 methylribonucleosides"
                                                                                                     /organism="Human immunodeficiency virus"
/mol_type="genomic DNA"
/db_xref="taxon:12721"
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     Patent: JP 2001514884-A 6 18-SEP-2001;
HYBRIDON INC
OS Human immunodeficiency virus
PN JP 2001514884-A/6
PD 18-SEP-2001
PF 05-AUG-1998 JP 2000509820
PR 19-AUG-1997 US 08/914827
PI SUDHIR AGRAWAL
PC C12N15/09,A61K31/7125,A61P31/18,C12N
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HYBRIDON INC
OS Human immunodeficiency virus
PN JP 2001514884-A/2
PD 18-SEP-2001
PF 05-AUG-1998 JP 2000509820
PR 19-AUG-1997 US 08/914827
PI SUDHIR AGRAWAL
PC C12N15/09.AG1X31/7125,A61P31/18,C121
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18-SEP-2001

05-AUG-1998 JP 2000509820

19-AUG-1997 US 08/914827

SUDHIR AGRAWAL

C12N15/09,A61K31/7125,A61P31/18,C12N15/00
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C12N15/09,A61K31/7125,A61P31/18,C12N15/00
Novel HIV-specific synthetic oligonucleotide
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/mol_type="genomic DNA"
/db_xref="taxon:12721"
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Kandimalla, B.R. and Agrawal, S.

Cooperative oligonucleotides

Patent: US 6372427-A 5 16-APR-2002;

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                     Antiviral anticancer poly-substituted phenyl derivatized oligoribonuclectides and methods for their use Patent: US 6291438-A 24 18-SEP-2001;
Location/Qualifiers
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/mol_type="genomic DNA"
/db_xref="taxon:12721"
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                                      organism="unknown"
/mol_type="unassigned
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| mol_type="unassigned
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Search completed: September 15, 2005, 01:23:26 Job time: 773.628 secs
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Matches 19
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Unclassified.
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CE 1 (bases 1 to 22)

DRS Chang,L.-J.
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Fatent: US 6207455-A 8 27-MAR-2001;
Location/Qualifiers
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""unassigned DNA"
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Sequence 8 from patent US 6207455.
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AR140320.1 GI:14482816
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1 (bases 1 to 21)

Habus, I. and Agrawal, S.

Building blocks with carbamate internucleoside linkages and oligonucleotides derived therefrom Patent: US 6605708-A 1 12-AUG-2003;
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/mol_type="mRNA"
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2: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*

3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*

4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*

5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*

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PCT-US95-00163-8
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US-08-420-672-23
US-08-448-1388-32
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Query Match 100.0%; Score 22; DB 1; Length Best Local Similarity 100.0%; Pred. No. 0.74; Matches 22; Conservative 0; Mismatches 0; Inde. Qy 1 TCGCACCCATCTCTCCTTCT 22	US-08-178-660-6 Sequence 6, Application US/08178660 Patent No. 5627277 GENERAL INFORMATION: APPLICANT: Cohen, Aharon S. APPLICANT: Wilenchik, Maria TITLE OF INVENTION: Method for Analyzing TITLE OF INVENTION: Method for Analyzing TITLE OF INVENTION: Oligonuclectide Analogs NUMBER OF SEQUENCES: CORRESPONDENCE ADDRESS: LADDRESSEE: Lappin & Kusmer STREET: 200 State Street CITY: Boston STATE: Massachusetts COUNTRY: U.S.A. ZIP: 02109 COMPUTER READABLE FORM: MEDIUM TYPE: Ploppy disk COMPUTER: IHM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOTTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/178,660 FILLING DATE: CLASSIFICATION NUMBER: US/08/178,660 FILLING DATE: CLASSIFICATION NUMBER: HYZ-012 TELEPOMUNICATION INFORMATION: NAME: Kerner, Ann-Louise REGISTRATION NUMBER: 33,523 REFERENCE/DOCKET NUMBER: HYZ-012 TELEPOMUNICATION INFORMATION: TELEPAX: 617/330-1311 INFORMATION FOR SEQ ID NO: 6: SEQUENCE CHARACTERISTICS: LENGTH: 22 base pairs TYPE: mucleic acid STRANDEDNESS: Single TOPOLOGY: linear MOLECULE TYPE: CDNA HYPOTHETICAL: NO US-08-178-660-6	ALIGNMENTS	C 28 17 77.3 20 3 US-09-074-357-9 29 17 77.3 20 3 US-09-371-774-50 30 17 77.3 20 5 PCT-US95-06161-2 31 17 77.3 20 5 PCT-US95-06161-3 32 16.8 76.4 21 3 US-08-420-672-24 C 33 16.72.7 19 1 US-08-420-672-24 34 15.4 70.0 20 3 US-09-166-166-51 35 15.4 70.0 20 3 US-09-166-166-51 C 36 15 68.2 18 1 US-08-241-062-2 C 37 14.4 65.5 19 1 US-08-473-096-20 38 14.4 65.5 19 1 US-08-473-096-20 39 14.2 64.5 19 1 US-08-473-096-20 40 14.2 64.5 21 1 US-08-820-672-13 40 14.2 64.5 21 1 US-08-28-152-26 42 14.2 64.5 21 1 US-08-28-152-26 43 14.2 64.5 21 2 US-08-076-299A-26 44 14.2 64.5 21 3 US-08-438-582-26 45 14.2 64.5 21 3 US-08-479-737-24
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RESULT 2

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Patent No. 5627277
GENERAL INFORMATION:
APPLICANT: Cohen, Aharon S.
APPLICANT: Bourque, Andre
APPLICANT: Wilenchik, Maria
TITLE OF INVENTION: Method for Analyzing
TITLE OF INVENTION: Oligonucleotide Analogs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
NAME: KETHEY, AND-LOUISE
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: HYZ-
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/330-1300
TELEPAX: 617/330-1311
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LEGGER 1230-1315
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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APPLICANT: Bourque, Andre
APPLICANT: Vilenchik, Maria
TITLE OF INVENTION: Method for Analyzing
TITLE OF INVENTION: Oligonucleotide Analy
                                                                                                     NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: 1: MOLECULE TYPE:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Lappin & Kusmer
STREET: 200 State Street
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                STATE: N
COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 22 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear
                                                      CITY: Boston
                                                                     STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
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                                                                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                  22;
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02109
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                                 Massachusetts
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                                                                     200 State Street
                U.S.A.
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                                                                                      Lappin & Kusmer
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100.0%; Pred. No. 0.
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RESULT 4
PCT-US95-00163-7
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PAtentin Release #1.0, Ver
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/00163
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGRAM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 7, Application PC/TUS9500163
GENERAL INFORMATION:
APPLICANT: Cohen, Aharon S.
APPLICANT: Bourque, Andre
APPLICANT: Vilenchik, Maria
TITLE OF INVENTION: Method for Analyzing
TITLE OF INVENTION: Oligonucleotide Analogs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 95.5%; Score 21; DB Best Local Similarity 100.0%; Pred. No. 2: Matches 21; Conservative 0; Mismatches
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: KETNET, Ann-Louise
REGISTRATION UNMER: 33,523
REFERENCE/DOCKET NUMBER: HYZ-
TELECOMMUNICATION INFORMATION:
TELEPINE: 617/330-1311
TELEFAX: 617/330-1311
                                                                       TELEFAX: 617/330-1311
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Kerner, Ann-Louise
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: HYZ-
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/330-1300
TELEPAX: 617/330-1311
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
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ADDRESSEE: Lappin & Kusmer
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HYPOTHETICAL:
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                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 02109
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STRANDEDNESS:
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Sequence 8, Application US/08178660
; Patent No. 5637277
; GENERAL INFORMATION:
APPLICANT: Cohen, Aharon S.
APPLICANT: Wilenchik, Maria
APPLICANT: Vilenchik, Maria
TITLE OF INVENTION: Method for Analyzing
TITLE OF INVENTION: Oligonucleotide Analogs
NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS;
; CORRESPONDENCE ADDRESS;
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                                                            PCT-US95-00163-8
                                                                          RESULT 6
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NAME: Kerner, Ann-Louise
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: HYZ-
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/330-1310
TELEPAX: 617/330-1311
INFORMATION FOR SEQ ID NO: 8:
Sequence 8, Appilia.

GENERAL INFORMATION:

GENERAL COhen, Aharon S.

The Cohen Andre
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Best Local Similarity
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Best Local Similarity
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MOLECULE TYPE:
HYPOTHETICAL:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/178,660
FILLING DATE:
CLASSIFICATION: 536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                   TYPE: nucleic acid
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Boston
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                                             Application PC/TUS9500163
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200 State Street
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100.0%;
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                                                                                                                                                                                            Score 20; Pred. No.
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                                                                                                                                                                                Mismatches
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5.7;
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US-08-420-672-5
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Patent No. 6372427
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: 617/330-1311 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: 11: MOLECULE TYPE: HYPOTHETICAL:
                                                                                MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
NAME: KERNEY, ANN-LOUISE
REGISTRATION UNMBER: 33,523
REFERENCE/DOCKET NUMBER: HY
TELECOMMUNICATION INFORMATION:
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
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TITLE OF INVENTION: Method for Analyzing
TITLE OF INVENTION: Oligonucleotide Analogs
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
                                                                                                                                                   COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Lappin & Kusmer
STREET: 200 State Street
                                                                                                                                                                                                                                                                                                       APPLICANT: Kandimalla, Ekambar R.
APPLICANT: Agrawal, Sudhir
TITLE OF INVENTION: COOPERATIVE OLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 24
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                ATTORNEY/AGENT INFORMATION:
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                                   FILING DATE:
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS:
                                                                   APPLICATION NUMBER: US/08/420,672
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                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                     CITY: Boston
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TELEFAX: 617/330-1311
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Kerner, Ann-Louise
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7: U.S.A.
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200 State Street
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US-08-098-945A-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1, Application US/08098945A Patent No. 6605708 GENERAL INFORMATION:
Best Local Similarity
                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
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Best Local Similarity
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TELEPHONE: 617-330-1300
TELEPAX: 617-330-1311
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                           TELEFAX: (617) 526-5000 INFORMATION FOR SEQ ID NO: 1: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HYPOTHETICAL: NA ANTI-SENSE: YES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REGISTRATION NUMBER: 33, REFERENCE/DOCKET NUMBER:
                                                                                                          TYPE: nucleic acid
STRANDENNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/098,945A
FILING DATE: 28-Jul-1993
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Kerner, Ann-Louise
REGISTRATION NUMBER: 33,523
                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: HYS-498 (47508-498)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 526-6000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                         SEQUENCE DESCRIPTION: SEQ ID NO: 1:
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CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: Building Blocks with Carbamate
Internucleoside Linkages and No. 6605708el Oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Habus, Ivan
Agrawal, Suc
                                                                                               ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 02109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE: Massachusetts
COUNTRY: United States
                                                                                                                                                                                                         LENGTH: 21 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: Hale and Dorr LLP
STREET: 60 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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90.9%;
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Score 20; DB 4;
Pred. No. 5.7;
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US-09-167-375-24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Antiviral anticancer poly-substituted phenyl derivatized oligorib-
TITLE OF INVENTION: methods for their use.

FILE REFERENCE: WMGJ 2002 (CIP-1)
CURRENT APPLICATION NUMBER: US/09/167,375B
CURRENT FILING DATE: 1998-10-06
NUMBER OF SEQ ID NOS: 26
SEQ ID NO 24
LENGTH: 22
TYPE: RNA
ORGANISM: Human Immunodeficiency Virus type 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 24, Application US/09167375B Patent No. 6291438 GENERAL INFORMATION:
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Patent No. 6207455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
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                                                                                                                                                           COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Vei
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/935,312
PILLING DATE: 22-SEP-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: COOPER, IVER P. 26 005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: CHANG, Lung-Ji
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                             TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCATION: Portion of the gag gene OTHER INFORMATION: Complementary to a portion of the gag gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
            SEQUENCE CHARACTERISTICS
LENGTH: 22 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                             TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION:
                                                             TELEPHONE: 202-737-3528
                                                                                                                               REGISTRATION NUMBER: 28
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                     ZIP: 20001
                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                        USA
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                                                                                               202-628-5197
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Pred. No.
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7; Mismatches
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US-09-318-138-8/c
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US-08-420-672-6
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                                                                                                                                                                                                                                                                                                                                                    NAME: Kerrer, Ann-Louise
NAME: Kerrer, Ann-Louise
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: HYZ-(
TELECOMUNICATION INFORMATION:
TELEPHONE: 617-330-1300
TELEPHONE: 617-330-1311
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 22 base pairs
Sequence 8, Application US/09318138
Patent No. 6531123
GENERAL INFORMATION:
APPLICANT: CHANG, Lung-Ji
TITLE OF INVENTION: LENTIVIRAL VECTORS
                                                                                                                                                                                              Matches
                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 6, Application US/08420672 Patent No. 6372427
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: Kandimalla, Ekambar R.
APPLICANT: Agrawal, Sudhir
TITLE OF INVENTION: COOPERATIVE OLIGONUCLECTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = ""DNA""
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/420,672
FILING DATE:
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                 HYPOTHETICAL:
                                                                                                                                                                                                                                                                                               TOPOLOGY: 1i
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                    ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                           Local Similarity 95.2
les 20; Conservative
                                                                                                                                                                                                                                                                                                            STRANDEDNESS: single TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Boston
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200 State Street
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Pred. No. 1
                                                                                                                                                                                                         Score 19.4;
Pred. No. 11
                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                       DB 3; Length 22;
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US-08-319-823A-10
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               ZIP: 60606

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: Microsoft Word for Windows 95
CURRENT APPLICATION DATA:
ADDITICATION NUMBER: US/08/319,823A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query
Best Local bim.
                                                                                                                                                                                                                                                                                                                                                                                               Sequence 10, Application US/08319823A Patent No. 5684147
                                                                                                                                                                                                                                                                                                                                                                                             Patent No.
                                                                                                                                                                                                                                                                       APPLICANT: Agrawal, Sud
TITLE OF INVENTION: The
TITLE OF INVENTION: Old
TITLE OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Agrawa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/318,138
FILING DATE: 25-May-1999
CLASSIFICATION ACUNCHOWN>
PRIOR APPLICATION NUMBER: US 60/086,635
APPLICATION NUMBER: US 60/086,635
FILING DATE: 26-MAY-1998
APPLICATION NUMBER: US 60/086,635
FILING DATE: 22-SEP-1997
ATTORNEY/AGENT INFORMATION:
NAME: CODEP TUELED
                                                                                                                                                                                                       CITY: Chicago
STATE: Illinois
CLASSIFICATION:
                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                             STREET:
                                                                                                                                                                                                                                                             ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linear MOLECULE TYPE: cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 22 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: COOPER, Iver P.
REGISTRATION NUMBER: 28,005
REFERENCE/DOCKET NUMBER: CH
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
STREET: 624 Ninth Street, N.W., Suite 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 TCGCACCCATCTCTCTCCTTC 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: D.C.
COUNTRY: USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: 202-737-3528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: 202-628-5197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Washington
                                                                                                                                                                                                                                           300 South Wacker
                                                                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                         McDonnell Boehnen Hulbert & Berghoff, Ltd
10 South Wacker Drive, Seventh Floor
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95.2%;
                                                                                                                                                                                                                                                                                                                  Oligonucleotides
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                                                                                                                                                                                                                                                                                                                                                            Sudhir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 19.4;
Pred. No. 11;
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1, Application US/08664786
Patent No. 6489464
GENERAL INFORMATION:
APPLICANT: Meschwitz, Susan M.
APPLICANT: Agrawal, Sudhir
TITLE OF INVENTION: Branched Oligonucleotides as Pathogen
TITLE OF INVENTION: Inhibitory Agents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                  TELEFAX: (312)715-1234
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: 312-913-9808 INFORMATION FOR SEQ ID NO:
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect for DOS 5.1
CURRENT APPLICATION DATA:
                                                                                                                                     NAME: Greenfield, Michael S. REGISTRATION NUMBER: 37,142 REFERENCE/DOCKET NUMBER: 93, TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Michael S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/252,494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE:
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TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Greenfield, Michael S.
REGISTRATION NUMBER: 37,142
REFERENCE/DOCKET NUMBER: 92,623-B
                                                                                                                                                                                                                                                                   APPLICATION NUMBER: FILING DATE: CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Chicago
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                                                                                                                       (312) 715-1000
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US-08-664-786-2
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                                                        Matches
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                                                                                  Query Match
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                                                                      Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Patent No. 6489464
                                                                                                                                                                                                                                                                                TELEFAX: (312)715-1234
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
NAME: Greenfield, Michael S.
REGISTRATION NUMBER: 37,74
REFERENCE/DOCKET NUMBER: 93,74
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312)715-1000
                                                                                                                         FEATURE:

NAME/KEY: misc feature
LOCATION: 1..20
OTHER INFORMATION: /note
OTHER INFORMATION: inter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect for DOS 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/664,786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                 ANTI-SENSE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Chicago
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es 19; Conservative
                                                                                                                                                                                                                                                        TYPE: nucleic acid
                                                                                                                                                                                                                                                                     ENGTH:
                                                        19;
                 1 TCGCACCCATCTCTCTCT 19
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                                                                      Similarity
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                                                                                                                                                                                                                                                                        20 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B: Michael S. Greenfield
10 S. Wacker Drive Suite 3000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Agrawal,
                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 86.4%; Score 19; DB
100.0%; Pred. No. 16
Live 0; Mismatches
                                                                    86.4%; Score 19; 100.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sudhir
                                                                                                                            /note= "All phosphorothioate
internucleotide linkages"
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                                                        Mismatches
                                                                      DB 4; Length 20; 16;
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16;
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Job time : 71.6047 secs

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Maximum Match 100%
Listing first 45 summaries
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Title:
Perfect score:
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22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Published Applications NA:*
1: /cgn2_6/ptodata/1/pubpna/US07
2: /cgn2_6/ptodata/1/pubpna/PCT 1
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Copyright (c) 1993 - 2005 Compugen Ltd.
/ Cgn2 6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
/ Cgn2 6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
/ Cgn2 6/ptodata/1/pubpna/US09E_PUBCOMB.seq:*
/ Cgn2 6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
/ Cgn2 6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
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/ Cgn2 6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
/ Cgn2 6/ptodata/1/pubpna/US10B_PUB.seq:*
/ Cgn2 6/ptodata/1/pubpna/US11_NEW_PUB.seq:*
/ Cgn2 6/ptodata/1/pubpna/US11_NEW_PUB.seq:*
/ Cgn2 6/ptodata/1/pubpna/US00_NEW_PUB.seq:*
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/cgn2_6/ptodata/1/pubpna/USO6_PUBCOMB.seq:*
/cgn2_6/ptodata/1/pubpna/USO7_NEW_PUB.seq:*
/cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq:*
/cgn2_6/ptodata/1/pubpna/USO8_NEW_PUB.seq:*
/cgn2_6/ptodata/1/pubpna/USO8_NEW_PUB.seq:*
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500.694 Million cell updates/sec
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

7	4. D. A	ωΝ	1	Result No.
21	222	21 21	22	Score
95.5	95.5	95.5 95.5	100.0 22	Query Match
21	21 21	21 21	22	q Query Match Length DB
10	10	10	10	Bd
US-09-896-692B-6	US-09-896-692B-2 US-09-896-692B-3	US-09-805-761-35 US-09-896-692B-1	10 US-09-896-692B-5	ID
Sequence 6, Appli	Sequence 2, Appli Sequence 3, Appli	Sequence 35, Appl Sequence 1, Appli	Sequence 5, Appli	Description

C 45						39	38	c 37		35		c 33		31	30	29	28	27	26	25	24	23			c 20		18	17	16	15		_	c 12	ш	10	9	80
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17	17	17	17	17	17	19	19	19	19	19	19	19	19	18	21	22	20	20	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	22	21	21
15	15	15	15	15	15	22	22	22	22	16	16	16	16	20	14	18	16	16	22	22	22	22	22	22	22	22	16	16	16	16	16	16	16	16	14	14	15
-10-157	-10-157-580A-6	-10-157-	-10-	-10-157	9	0-923	o	0-923-	1	-10-225-023-	-10-225-023	-10-225	-10 - 225	-10-483-654-1	0-054-429A	-10-640-898-1	-10-292-149-3	-10-292-148-	10-923-4	10-923-473-	-923-473-116	-10-923-473-11	-10-923-473-	0-923-473-	-10-923-473-42	-10-923-473-42	-10-225-023-	-10-225-023-117	-10-225-023-	-10-225-023-11	-10-225-	0-225-	-10-225-023-	US-10-225-023-420		US-10-054-429A-5	US-10-262-318-11
73,	69	61,	42,	41,	26,	1201		463	409,	e 1201	e 1147,	463		18,	23,	Sequence 19, Appl	31,	31, Ar	1204,	e 1178,	1167,	1158,	466,	440,	429	420,	1204,	1178,	1167,	1158,		440,	ው ው	e 420	Sequence 6, Appli	ທ	11,

ALIGNMENTS

RESULT 1 US-09-896-692B-5

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                                                                                                                                                       SEQ ID NO 5
LENGTH: 22
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic modified antisense oligonucleotide
                                                                                                                                                                                                                                                                                    Sequence 5, Application US/09896692B
Publication No. US20030100521A1
GENERAL INFORMATION:
APPLICANT: Agrawal, Sudhir
TITLE OF INVENTION: No. US20030100521A1e1 HIV-Specific Synthetic Oligonucleotides and
TITLE OF INVENTION: Methods of Their Use
FILE REFERENCE: 47508.556 (HYZ-069)
CURRENT APPLICATION NUMBER: US/09/896,692B
CURRENT FILING DATE: 2002-10-17
PRIOR FILING DATE: 1997-08-19
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                     Best Local Similarity
Matches 22; Conservat
                                                                                                              Query Match
                                1 TCGCACCCATCTCTCTCTTCT 22
                                                                         Conservative
                                                                                          100.0%; Score 22; DB 10; 100.0%; Pred. No. 4.3;
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US-09-896-692B-1
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PRIOR FILING DATE: 2001-01-19
PRIOR REPLICATION NUMBER: US 09/487,023
PRIOR FILING DATE: 2000-01-19
PRIOR APPLICATION NUMBER: US 09/016,541
PRIOR FILING DATE: 2000-11-24
PRIOR FILING DATE: 1998-01-30
PRIOR FILING DATE: 1998-01-30
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                                               Matches
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Best Local (
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 35
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                             APPLICANT: Agrawal, Sudhir
TITLE OF INVENTION: No. US20030100521A1el HIV-Specific Synthetic Oligonucleotides
TITLE OF INVENTION: Methods of Their Use
FILE REFERENCE: 47508.556 (HYZ-069)
CURRENT APPLICATION NUMBER: US/09/896,692B
CURRENT FILING DATE: 2002-10-17
CURRENT FILING DATE: 2002-10-17
                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 08/914,827
PRIOR FILING DATE: 1997-08-19
NUMBER OF SEQ ID NOS: 8
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CURRENT APPLICATION NUMBER: US/09/805,761
CURRENT FILING DATE: 2001-03-13
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APPLICANT: Mascod, Rizwan
TITLE OF INVENTION: WETHODS AND COMPOSITIONS FOR
TITLE OF INVENTION: VEGF OLIGONUCLECTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: US 60/037,004 PRIOR FILING DATE: 1997-01-31
                                                                                                                                                                        LENGTH: 21
TYPE: DNA/RNA
ORGANISM: Artificial Sequence
                                                                                                                                  FEATURE: OTHER INFORMATION: synthetic modified antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: nucleotides 1-4 and 1 OTHER INFORMATION: methylribonucleosides
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                                                                Similarity
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        TCGCACCCATCTCTCTCCTTC 21
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Pred. No.
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Pred. No.
                                           Mismatches
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12;
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FILE REFERENCE: 47508.556 (HYZ-069)
CURRENT APPLICATION NUMBER: US/99/896,692B
CURRENT FILING DATE: 2002-10-17
PRIOR APPLICATION NUMBER: US 08/914,827
PRIOR FILING DATE: 1997-08-19
PRIOR FILING DATE: 1997-08-19
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 3
SEQ ID NO 3
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RESULT 6
US-09-896-692B-4
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US-09-896-692B-3
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US-09-896-692B-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 3, Application US/09896692B
Publication No. US20030100521A1
GENERAL INFORMATION:
APPLICANT: Agrawal, Sudhir
TITLE OF INVENTION: No. US20030100521A1el HIV-Specific Synthetic Oligonucleotides and
TITLE OF INVENTION: Methods of Their Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2
LENGTH: 21
TYPE: DNA
ORGANISM: Artificial Sequence
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APPLICANT: Agrawal, Sudhir
                                                                                                                                                          Matches
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CURRENT FILING DATE: 2002-10-17
PRIOR APPLICATION NUMBER: US 08/914,827
PRIOR FILING DATE: 1997-08-19
PRIOR FILING DATE: 1997-08-19
NUMBER OF SEQ ID NOS: 8
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TITLE OF INVENTION: No. US20030100521A1el HIV-Specific Synthetic Oligonucleotides and
TITLE OF INVENTION: Methods of Their Use
FILE REFERENCE: 47508.556 (HYZ-069)
                                                                                                                                                                                                                                                        OTHER INFORMATION: synthetic modified antisense oligonucleotide
                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                    TYPE: DNA/RNA
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                                                                                                                                                                              Local Similarity
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85.7%;
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Pred. No.
                                                                                                                                                                              Score 21; DB
Pred. No. 12;
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Sequence 4, Application US/09896692B Publication No. US20030100521A1 GENERAL INFORMATION:

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APPLICANT: Copharos
APPLICANT: Collins, Douglas A.
APPLICANT: Collins, Douglas A.
TITLE OF INVENTION: CODMINISTRATION OF TRANS
TITLE OF INVENTION: DELIVER AGENTS
FILE REFERENCE: COP1012
CURRENT APPLICATION NUMBER: US/10/262,318
CURRENT FILING DATE: 2002-09-30
NUMBER OF SEQ ID NOS: 14
SOFTWARE: Patentin version 3.1
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US-09-896-692B-6
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; OTHER INFORMATION: synthetic modified antisense oligonucleotide
US-09-896-692B-4
                                                                                                                                                                                                                               Sequence 11, Application US/10262318 Publication No. US20030144198A1 GENERAL INFORMATION:
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TITLE OF INVENTION: No. US20030100521Alel HIV-Specific Synthetic Oligonucleotides (
TITLE OF INVENTION: No. US20030100521Alel HIV-Specific Synthetic Oligonucleotides (
TITLE OF INVENTION: No. US2003101052
FILE REFERENCE: 47508.556 (HYZ-069)
CURRENT FILING ADTE: 2002-10-17
PRIOR APPLICATION NUMBER: US 08/914,827
PRIOR APPLICATION NUMBER: US 08/914,827
PRIOR APPLICATION NUMBER: US 08/914,827
PRIOR FILING DATE: 1997-08-19
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSEQ for Windows Version 4.0
LENGTHL 2
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Best Local
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TITLE OF INVENTION: No. US20030100521A1el HIV-Specific Synthetic Oligonucleotides and
TITLE OF INVENTION: Methods of Their Use
FILE REFERENCE: 47508.556 (HYZ-069)
CURRENT APPLICATION NUMBER: US/09/896,692B
CURRENT FILING DATE: 2002-10-17
PRIOR APPLICATION NUMBER: US 08/914,827
PRIOR APPLICATION NUMBER: US 08/914,827
PRIOR FILING DATE: 1997-08-19
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Best Local Similarity
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SOFTWARE: FastSEQ for Windows Version 4.0
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ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
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                                                                                                                                                       TRANSPORT PROTEINS WITH CONJUGATED COBALAMIN
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SEQ ID NO 5
LENGTH: 21
TYPE: DNA
ORGANISM: Artificial Sequence
PRIOR APPLICATION NUMBER: US 08/420,672
PRIOR FILING DATE: 1995-04-12
NUMBER OF SEQ ID NOS: 30
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 6
                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: Kandimalla, Ekambar R.
APPLICANT: Agrawal, Sudhir
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LENGTH: 21
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Publication No. US20030099959A1
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                                                                                 APPLICANT: Agrawal, Sudhir
TITLE OF INVENTION: Cooperative Oligonucleotides
FILE REFERENCE: 47508-580 (HYZ-027CIP)
CURRENT APPLICATION NUMBER: US/10/054,429A
CURRENT FILING DATE: 2002-11-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Agrawal, Sudhir
TITLE OF INVENTION: Cooperative Oligonucleotides
FILE REFERENCE: 47508-580 (HYZ-027CIP)
CURRENT APPLICATION NUMBER: US/10/054,429A
CURRENT FILING DATE: 2002-11-04
PRIOR APPLICATION NUMBER: US 08/420,672
PRIOR PLING DATE: 1995-04-12
NUMBER OF SEQ ID NOS: 30
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OTHER INFORMATION: 2'OMe sugar modifications
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OTHER INFORMATION: Oligonucleotide-- GEM-92 (Hybridon)
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85.7%;
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Pred. No.
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APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of
TITLE OF INVENTION: RNA Interference Mediated Inhibition of
TITLE OF INVENTION: Interfering RNA
FILE REFERENCE: 400/054 (MBHB01-665-B)
CURRENT APPLICATION NUMBER: US/10/225,023
CURRENT FILING DATE: 2003-01-06
PRIOR APPLICATION NUMBER: US 60/398,036
PRIOR APPLICATION NUMBER: US 60/398,036
PRIOR FILING DATE: 2002-07-23
PRIOR APPLICATION NUMBER: US 60/294,140
PRIOR PILING DATE: 2002-05-29
PRIOR APPLICATION NUMBER: US 10/157,580
PRIOR PILING DATE: 2002-05-29
PRIOR FILING DATE: 2002-05-29
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; OTHER INFORMATION: cooperative
US-10-054-429A-6
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Publication No. US20030175950A1
GENERAL INFORMATION:
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Best Local
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Best Local Similarity
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CURRENT FILING DATE: 2003-01-06
PRIOR PPLICATION NUMBER: US 60/398,036
PRIOR FILING DATE: 2002-07-23
PRIOR APPLICATION NUMBER: US 60/294,140
PRIOR FILING DATE: 2002-05-29
PRIOR FILING DATE: 2002-05-29
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TITLE OF INVENTION: RNA Interference Mediated Inhibition of HIV Gene Expression Using
TITLE OF INVENTION: Interfering RNA
FILE REFERENCE: 400/054 (MBMD1-665-B)
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PRIOR FILING DATE: 2002-05-29
NUMBER OF SEQ ID NOS: 1494
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SOFTWARE:
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ORGANISM: Artificial Sequence
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ORGANISM: Artificial Sequence
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PatentIn version 3.0
                     SEQ ID NOS: 1494
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100.0%; Pred. No. 89
cive 0; Mismatches
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Pred. No. 59;
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RESULT 14
US-10-225-023-466/c
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US-10-225-023-440/c
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LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                               Sequence 466, Application US/10225023 Publication No. US20030175950A1 GENERAL INFORMATION:
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                                                                                                                         TITLE OF INVENTION: RWA Interference Mediated Inhibition of HIV Gene Expression Using TITLE OF INVENTION: Interfering RNA FILE REFERENCE: 400/054 (MBHB01-665-B) CURRENT APPLICATION NUMBER: US/10/225,023 CURRENT FILING DATE: 2003-01-66
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CURRENT FILING DATE: 2003-01-06
PRIOR APPLICATION NUMBER: US 60/398,036
PRIOR FILING DATE: 2002-07-23
PRIOR APPLICATION NUMBER: US 60/294,140
PRIOR FILING DATE: 2002-05-29
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                                               CURRENT FILING DATE: 2003-01-06
PRIOR APPLICATION NUMBER: US 60/398,036
PRIOR FILING DATE: 2002-07-23
PRIOR APPLICATION NUMBER: US 60/294,140
PRIOR FILING DATE: 2002-05-29
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                 PRIOR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: RNA
ORGANISM: Artificial Sequence
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             APPLICATION NUMBER: US 10/157,580 FILING DATE: 2002-05-29
OF SEQ ID NOS: 1494
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100.0%; Pred. No.
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Pred. No.
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APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: McSwiggen, James
ITILE OF INVENTION: Interference Mediated Inhibition of HIV Gene Expression Using
ITILE OF INVENTION: Interfering RNA
FILE REFERENCE: 400/054 (MBHB01-665-B)
CURRENT FILING NOWEBR: US/10/225,023
CURRENT FILING DATE: 2003-01-06
PRIOR APPLICATION NUMBER: US 60/398,036
PRIOR FILING DATE: 2002-07-23
PRIOR FILING DATE: 2002-05-29
PRIOR FILING DATE: 2002-05-29
PRIOR APPLICATION NUMBER: US 10/157,580
PRIOR APPLICATION DATE: 2002-05-29
NUMBER OF SEQ ID NOS: 11494
SOPTWARE: Patentin version 3.0
SEQ ID NO 1158
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
PEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-225-023-1158
Search completed: September 15, 2005, 00:50:14 Job time: 288.558 secs
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; OTHER INFORMATION: Description of Artificial Sequence: Target sequence/siNA sense
US-10-225-023-466
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SEQ ID NO 466
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 13; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 86.4%; Score 19; DB 16; Length 19; Best Local Similarity 100.0%; Pred. No. 89; Matches 19; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1158, Application US/10225023 Publication No. US20030175950A1 GENERAL INFORMATION:
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1 GCACCCAUCUCUCCCCUUC 19
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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1: /cgn2_6/ptodata/1/pna/PCTUS1_COMB.seq:

2: /cgn2_6/ptodata/1/pna/PCTUS2_COMB.seq:

3: /cgn2_6/ptodata/1/pna/PCTUS_COMB.seq:

4: /cgn2_6/ptodata/1/pna/US06_COMB.seq:
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m2_6/ptodata/1/pna/US080_COMB.seq:*
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m2_6/ptodata/1/pna/US095_COMB.seq:*
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5. ( 'ggn2-6/ptodata/) pna/US099F_COMB. seq: * ( 'ggn2-6/ptodata/) pna/US099F_COMB. seq: * ( 'ggn2-6/ptodata/) pna/US100A_COMB. seq: * ( 'ggn2-6/ptodata/)
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Result No.

Score

Query Match Length

score greater Pred. No.

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id. No. is the number of results predicted by chance to have a
ore greater than or equal to the score of the result being printed,
is derived by analysis of the total score distribution.
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/cgn2_6/ptodata/1/pna/US6056_COMB.seq:*
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PCT-US94-08655-1
PCT-US03-01814-5
2 US-08-627-967-5
3 US-08-751-384-5
7 US-08-627-967-6
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US-08-914-827-1
US-08-914-827-3
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US-09-837-806A-4
US-09-836-692B-3
US-09-896-692B-3
US-09-896-692B-3
US-09-896-692B-3
US-09-896-692B-3
US-09-896-692B-6
US-10-246-300D-29
US-110-262-318-11
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Sequence 5, Appli
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Sequence 7, Appli
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                                                                                                                                                                                                          Sequence 5, Applicate
; Sequence 5, Applicate
; GENERAL INFORMATION:
; APPLICANT: Agrawal, Sudhir
; TITLE OF INVENTION: NOVEL HIV-SPEC
; TITLE OF INVENTION: OLIGONUCLEOTID
; UNMAER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
ANDRESSEE: HALE AND DORR LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-478-464-6
US-08-478-464-6
Sequence 6, Application US/08478464
SEQUENCE INFORMATION:
APPLICANT: Cohen, Aharon S.
APPLICANT: Bourque, Andre
APPLICANT: Vilenchik, Maria
TITLE OF INVENTION: Method for Analyzing
TITLE OF INVENTION: Oligonucleotide Analogs
NUMBER OF SEQUENCES: 8
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US-08-914-827-5
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Best Local S
Matches 22
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Ve)
CURRENT APPLICATION NUMBER: US/08/478,464
FILING DATE: 07-JUNE-1995
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Kerner, Ann-Louise
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: HYZ-012DV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
TELESPHONE: 617/330-1300
TELESPAX: 617/330-1311
INFORMATION FOR SEQ ID NO: 6:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 22 base pairs
                                                                                 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: 1: MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Lappin & Kusmer
STREET: 200 State Street
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HYPOTHETICAL: NO
                                                                                                                                                                       STREET: 60 St
CITY: Boston
STATE: MA
                COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 200 State St. CITY: Boston
STATE: Massachusetts
                                                                                                                             COUNTRY: Un
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 TCGCACCCATCTCTCTCTTCT 22
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                                                                                                                                                  United States Of America
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NOVEL HIV-SPECIFIC SYNTHETIC
OLIGONUCLEOTIDES AND METHODS OF THEIR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HYZ-012DV
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                    Version
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19.4 19.4 19.4 19.4

ATTORNEY/AGENT INFORMATION:

FILING DATE: CLASSIFICATION:

APPLICATION NUMBER:

US/08/914,827

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 5, Application US/09837806
GENERAL INFORMATION:
GENERAL THOORMATION: NOVEL HIV-SPECIFIC SYNTHETIC
OF INVENTION: NOVEL HIV-SPECIFIC SYNTHETIC
OLIGONUCLEOTIDES AND METHODS OF THEIR USE
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Matches
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                                                                                                                            INFORMATION FOR SEQ ID NO: 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ANTI-SENSE: YES
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REGISTRATION NUMBER: 33,1
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
TYPE: nucleic acid
STRANDENNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH:
                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 22 base pairs
                                                                                                                                                                                               APPLICATION NUMBER: 08/914,827
PILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
NAME: Kerner, Ann-Louise
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: HYZ-069
                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/09/837,806
FILING DATE: 30-Mar-2001
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compartible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWALE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                         TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET: 60 State Street
                                                                                                                                            TELEPHONE: (617) 526-60
TELEFAX: (617) 526-5000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: HALE AND DORR LLP
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                                                                                                                       ; SEQ ID NO 5; LENGTH: 22; TYPE: DNA; ORGANISM: Artificial Sequence; FEATURE; OTHER INFORMATION: synthetic modified antisense oligonucleotide US-09-896-6928-5
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; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-09-837-806A-5
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US-09-837-806A-5
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US-09-896-692B-5
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LENGTH: 22
TYPE: DNA
ORGANISM: Artificial Sequence
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                                                           Matches
                                                                          Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                              APPLICANT: Agrawal, Sudhir
TITLE OF INVENTION: Movel HIV-Specific Synthetic Oligonucleotides and
TITLE OF INVENTION: Methods of Their Use
FILE REFERENCE: 47508.556 (HYZ-069)
CURRENT APPLICATION NUMBER: US/09/896,692B
CURRENT FILING DATE: 2002-10-17
PRIOR APPLICATION NUMBER: US 08/914,827
PRIOR FILING DATE: 1997-08-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILE REFERENCE: HYZ-069CN
CURRENT APPLICATION NUMBER: US/09/837,806A
CURRENT FILING DATE: 2001-04-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: NOVEL HIV-SPECIFIC SYNTHETIC OLIGONUCLEOTIDES AND TITLE OF INVENTION: METHODS OF THEIR USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
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Pred. No.
                                                                         Score 22; DB
Pred. No. 32;
                                                           Mismatches
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                                                           Indels
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US-08-478-464-7

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RESULT 7
US-08-914-827-1
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GENERAL INFORMATION:
APPLICANT: Cohen, Aharon S.
APPLICANT: Bourque, Andre
APPLICANT: Vilenchik, Maria
TITLE OF INVENTION: Method for Analyzing
TITLE OF INVENTION: Oligonucleotide Analogs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
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TELEFAX: 617/330-1311
INFORMATION FOR SEQ ID NO:
                              ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
NAME: KETHEY, AND-LOUISE
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: HY:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: FORDyy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
SOFTMARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/08/478,464
FILING DATE: 07-UUNE-1995
CLASSIFICATION: 536
CLASSIFICATION: 536
                                                                                                                                                                                    NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                       APPLICANT: Agrawal, Sudhir
TITLE OF INVENTION: NOVEL HIV-SPECIFIC SYNTHETIC
TITLE OF INVENTION: OLIGONUCLEOTIDES AND METHODS OF THEIR USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: line; MOLECULE TYPE: c1 HYPOTHETICAL: NO
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LENGTH: 21 base pairs
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                                                                                                               STREET: 60 St
CITY: Boston
STATE: MA
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                           COUNTRY: UZIP: 02109
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: United States Of America
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                                                                                                                                              60 State Street
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200 State Street
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US-08-914-827-1
US-08-914-827-2
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Best Local Similarity
                                                                                                                                               TELEFAX: (617) 526-5000 INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:

NAME: Kerner, Ann-Louise
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: HYZ-069
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 526-6000
TELEPHONE: (617) 526-5000
                                                                                                                                                                             CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
ANAME: KETHEY, ANN-LOUISE
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: HYZ-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 526-6000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (617) 526-50
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/914,827
                            MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                  SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
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ADDRESSEE: HALE AND DORR LLP
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HYPOTHETICAL:
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LENGTH: 21 base pairs
                                                                                                                                 SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
              ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
                                                                           LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: 514
                                                                TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STREET:
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85.7%;
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Pred. No. 87;
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                                                      Sequence 4, Application US/08914827
GENERAL INFORMATION:
APPLICANT: Agrawal, Sudhir
TITLE OF INVENTION: NOVEL HIV-SPECIFIC SYNTHETIC
TITLE OF INVENTION: OLIGONUCLECTIDES AND METHODS
NUMBER OF SEQUENCES: 6
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Best Local Similarity
Matches 21; Conserv
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
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TITLE OF INVENTION: NOVEL HIV-SPECIFIC SYNTHETIC
TITLE OF INVENTION: OLIGONUCLECTIDES AND METHODS OF THEIR USE
                                          CORRESPONDENCE ADDRESS:
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CLASSIFICATION: 514
             ADDRESSEE: HALE AND DOR'STREET: 60 State Street
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TELEPAX: (617) 526-5000
INFORMATION FOR SEQ ID NO:
INFORMATION FOR SEQ ID NO:
                                                           CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Kerner, Ann-Louise
REGISTRATION NUMBER: 33,
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0, '
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/914,827
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ADDRESSEE: HALE AND DORR LLP
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CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
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ZIP: 02109
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TYPE: nucleic acid
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NOVEL HIV-SPECIFIC SYNTHETIC
OLIGONUCLECTIDES AND METHODS OF THEIR USE
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RESULT 12
US-09-708-786-2
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                                                                                                                                                     PRIOR APPLICATION NUMBER: PCT/US01/00019
PRIOR FILING DATE: 2001-01-19
PRIOR PFLICATION NUMBER: US 09/487,023
PRIOR FILING DATE: 2000-01-19
PRIOR APPLICATION NUMBER: US 09/016,541
PRIOR PILING DATE: 2000-11-24
PRIOR PILING DATE: 1998-01-30
PRIOR APPLICATION NUMBER: US 09/016,541
PRIOR APPLICATION NUMBER: US 09/016,541
PRIOR PILING DATE: 1998-01-30
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                                                  SEQ ID NO 35
LENGTH: 21
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TITLE OF INVENTION: Potentiation of Prodrug Efficacy
FILE REFERENCE: 47508:700US
CURRENT APPLICATION NUMBER: US/09/708,786
CURRENT FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: PCT/US00/30687
PRIOR APPLICATION NUMBER: PCT/US00/30687
PRIOR FILING DATE: 2000-11-08
NUMBER OF SEQ ID NOS: 3
                                                                                                                                                                                                                                                                                              APPLICANT: Masood, Rizwan
TITLE OF INVENTION: WETHODS AND COMPOSITIONS FOR ANTISENSE
TITLE OF INVENTION: VEGF OLIGONUCLECTIDES
FILE REFERENCE: 21327-701CON2
CURRENT APPLICATION NUMBER: US/09/805,761
CURRENT FILING DATE: 2001-03-13
                                                                                      PRIOR FILING DATE: 1997-01-31
NUMBER OF SEQ ID NOS: 64
SOFTWARE: FastSEQ for Windows Version 4.0
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TYPE: DNA
ORGANISM: oligonucleotide sequence
ORGANISM: Artificial Sequence FEATURE:
                                   TYPE: DNA
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TOPOLOGY: linear
MOLECULE TYPE: DNA/:
HYPOTHETICAL: NO
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                                                                                                                                              US-09-837-806-1
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US-09-837-806-1
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GENERAL INFORMATION:
APPLICANT: Agrawal, Sudhir
TITLE OF INVENTION: NOVEL HIV-SPECIFIC SYNTHETIC
OLIGONUCLEOTIDES AND METHODS
                                                                         Matches
                                                                                                         Query Match
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Best Local Similarity
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TBLEFAX: (617) 526-5000
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER REALIBLE FORM:
MEDIUM TYPE: Ploppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Ver
CURRENT APPLICATION NUMBER: US/09/837,806
FILING DATE: 30-Max-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
                                                                                                                                                                               TYPE: nucleic acid
STRANDENMESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA/RNA
HYPOTHETICAL: NO
ANTI-SENSE: YES
                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 08/914,827
FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
NAME: Kerner, Ann-Louise
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: HYZ-069
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                SEQUENCE DESCRIPTION: SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
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                      1 UCGCACCCATCTCTCCCUUC 21
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UCGCACCCATCTCTCTCCUUC 21
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                                                                        Conservative
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85.7%;
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Pred. No.
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RESULT 15 US-09-837-806-2

Sequence 2, Application US/09837806 GENERAL INFORMATION:

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STREET: by CITY: Boston
STATES MA
COUNTRY: United States Of America
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Ploppy disk
COMPUTER ISM C-COS/MS-DOS
SOFTWARR: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/837,806
FILING DATE: 30-Mar-2001
CLASSIFICATION NUMBER: 08/914,827
FILING DATE: 30-Mar-2001
FILING DATE: 30-Mar-2001
APPLICATION NUMBER: 08/914,827
FILING DATE: 10xhcnown
APTORNEY/AGENT INFORMATION:
NAME: Kerner, Ann-Louise
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: 08/914,827
REFERENCE/DOCKET 
Search completed: September 15, 2005, 00:40:44
Job time: 1770.21 secs
                                                                                                                                                                                                                                                                                                                                   Query Match 95.5%; Score 21; DB 36; Length 21; Best Local Similarity 100.0%; Pred. No. 87; Matches 21; Conservative 0; Mismatches 0; Indels
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ADDRESSEE: HALE AND DORR LLP
STREET: 60 State Street
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TITLE OF INVENTION: NOVEL HIV-SPECIFIC SYNTHETIC
OLIGONUCLECTIDES AND METHODS OF THEIR USE
NUMBER OF SEQUENCES: 6
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